

KIC 004647763

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
004647763-01	OBS	No	0.513844	131.912266	194.2	1.721	12.1	13.5	3.96	6842	6.44	0.00
004647763-02	OBS	No	0.513818	131.555514	178.3	3.290	12.7	12.6	3.96	6842	5.35	0.00
004647763-03	OBS	No	0.513829	131.767244	167.5	1.500	16.1	-1.0	3.96	6842	5.20	127261.68

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004647763-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_SATURATED
004647763-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
004647763-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—NO_FITS—SAME_NTL_PERIOD—CENT_SATURATED

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

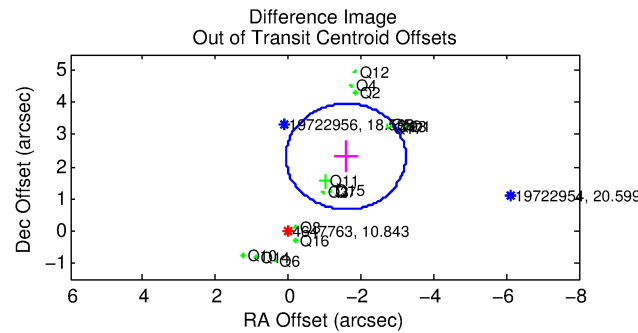
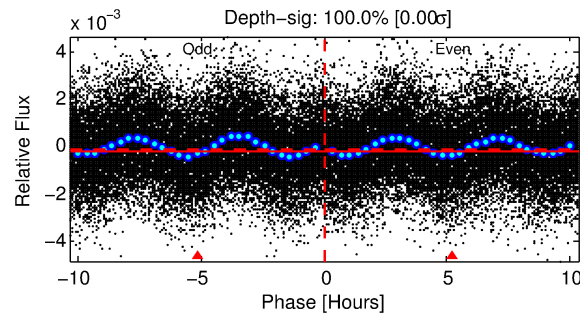
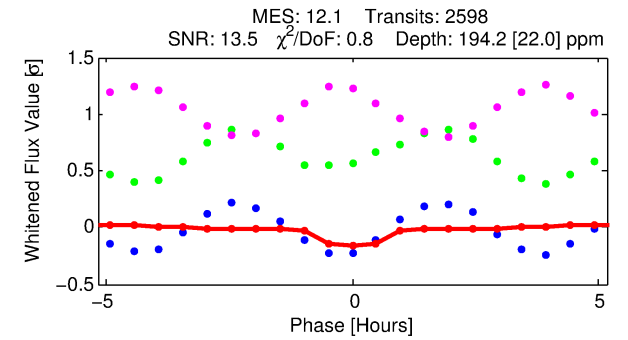
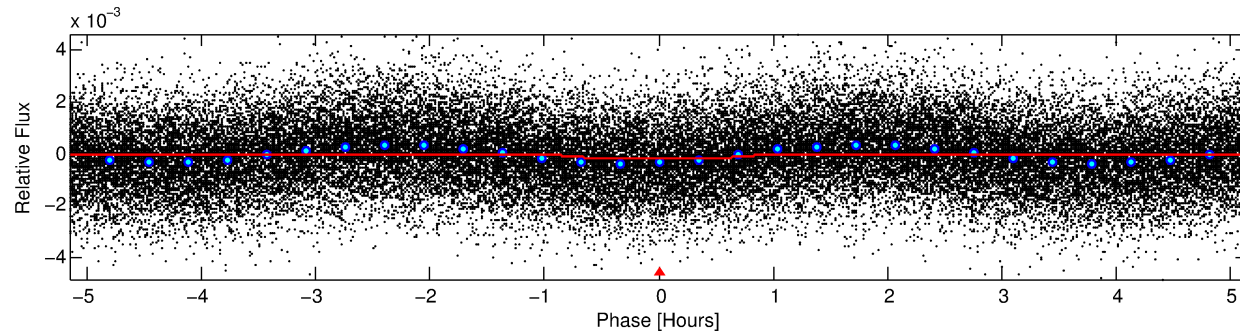
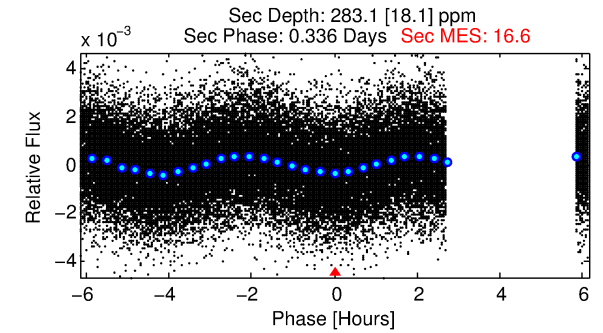
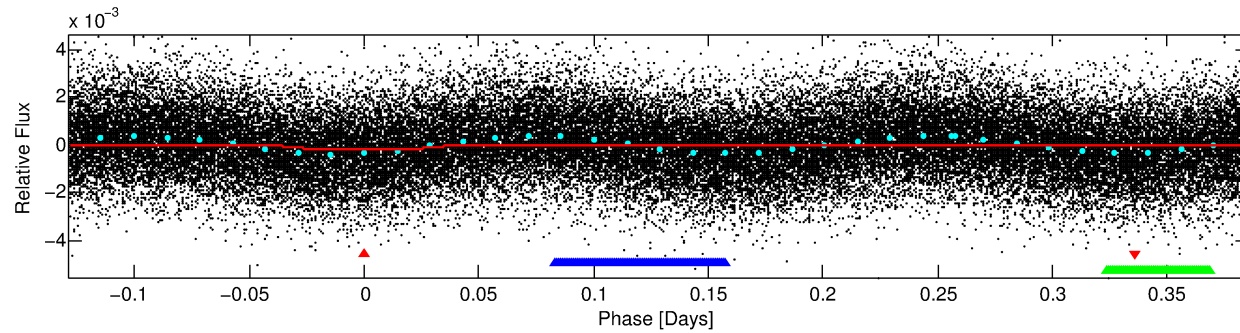
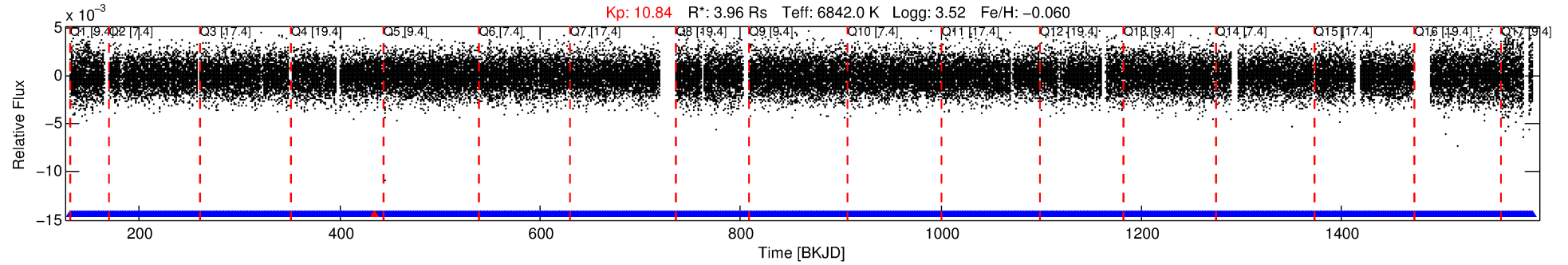
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004647763-01

No Significant Match Found

DV One-Page Summary

KIC: 4647763 Candidate: 1 of 3 Period: 0.514 d



DV Fit Results:

Period = 0.51384 [0.00001] d
Epoch = 131.9123 [0.0020] BKJD
Rp/R* = 0.0149 [0.0060]
a/R* = 1.43 [1.75]
b = 0.90 [0.52]
Seff = N/A
Teq = N/A
Rp = 6.44 [3.21] Re
a = N/A
Ag = N/A
Teffp = N/A

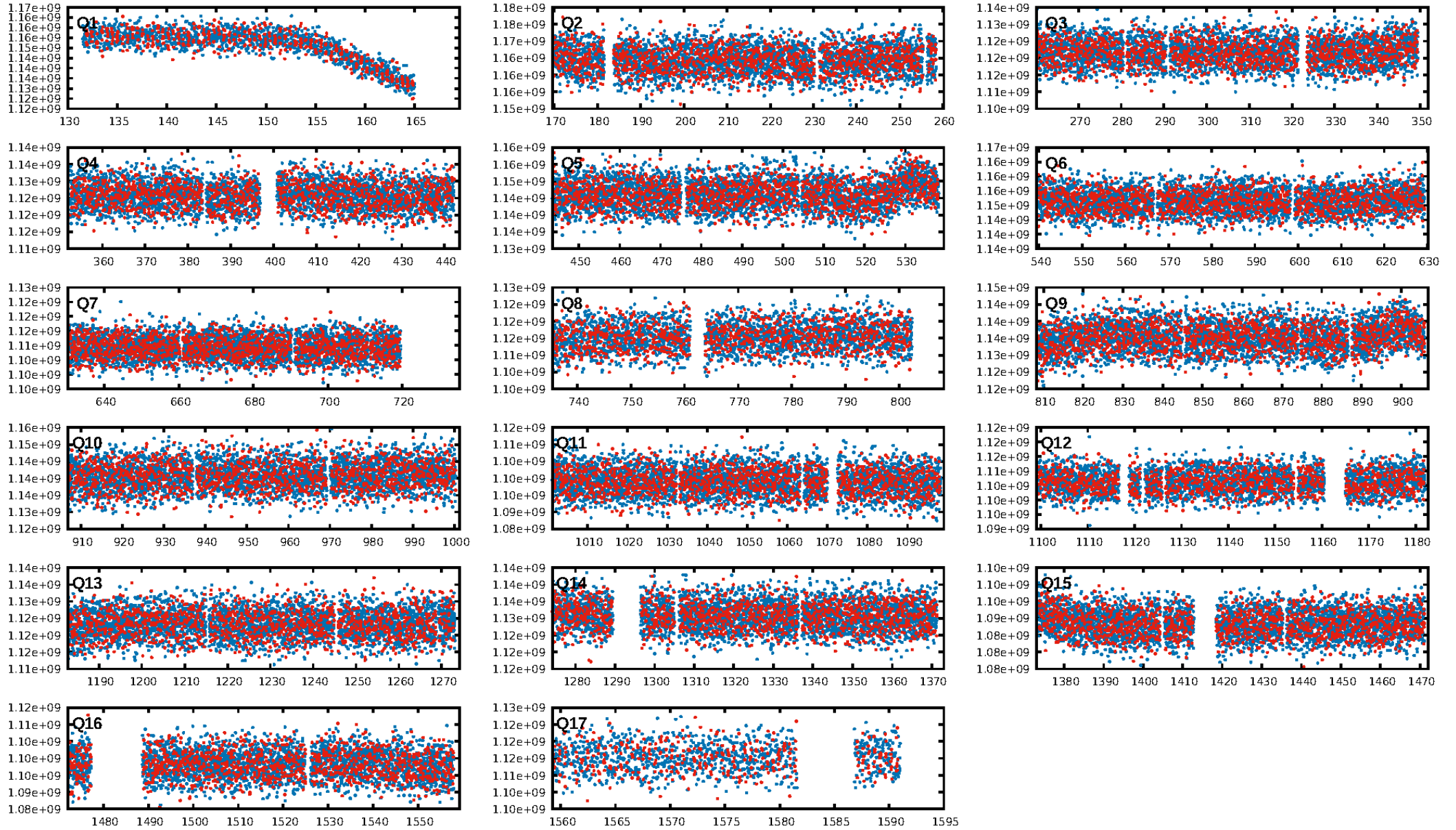
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2481/2482]
GhostDiagnostic-chr: 0.9321
Centroid-sig: N/A
Centroid-so: 0.125 arcsec [1.54σ]
OotOffset-rm: 2.802 arcsec [5.10σ]
KicOffset-rm: 2.696 arcsec [4.67σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.53 [9/17]
DiffImageOverlap-fno: 0.00 [0/17]

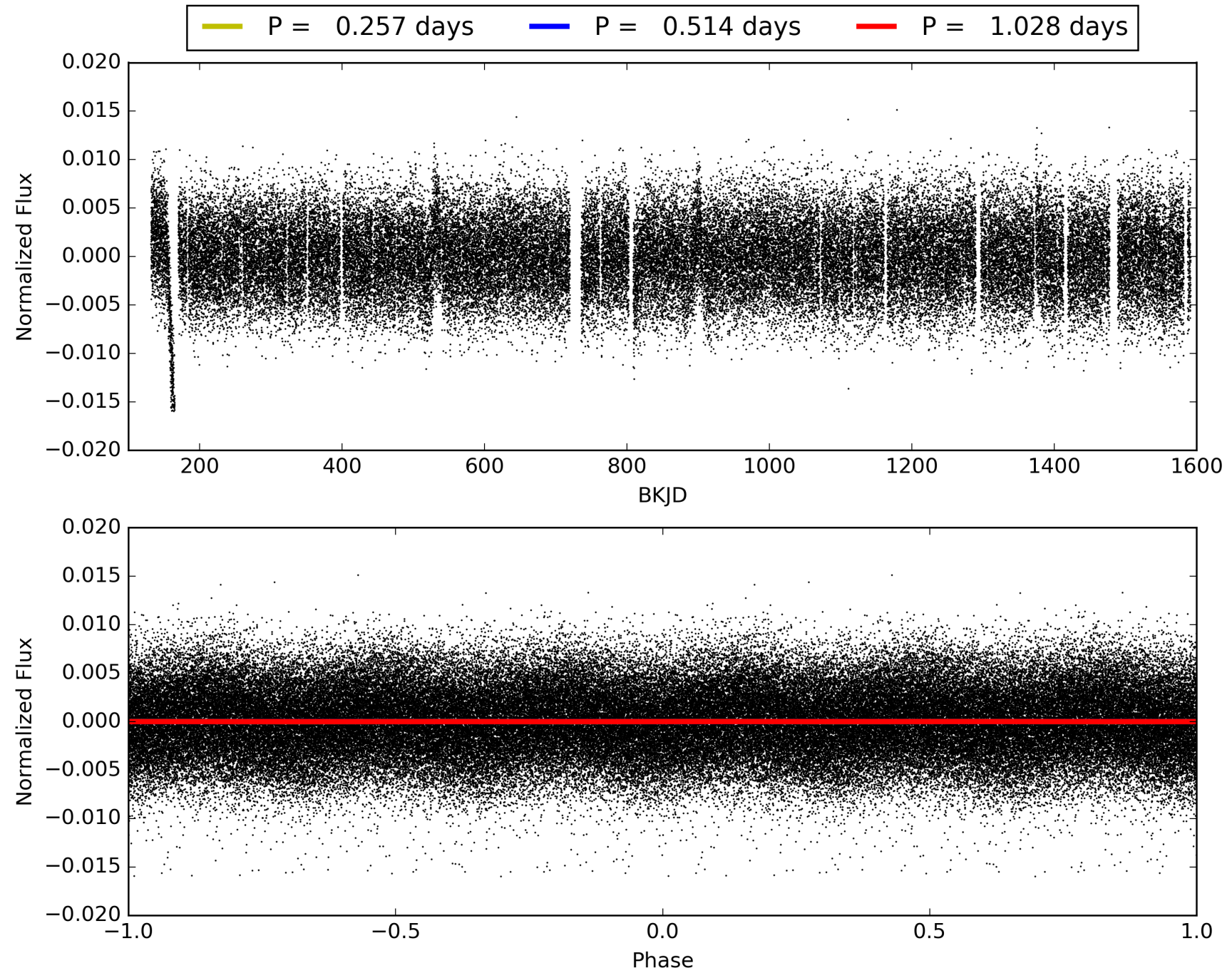
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 02:05:16 Z

This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 004647763-01, PDC Light Curves

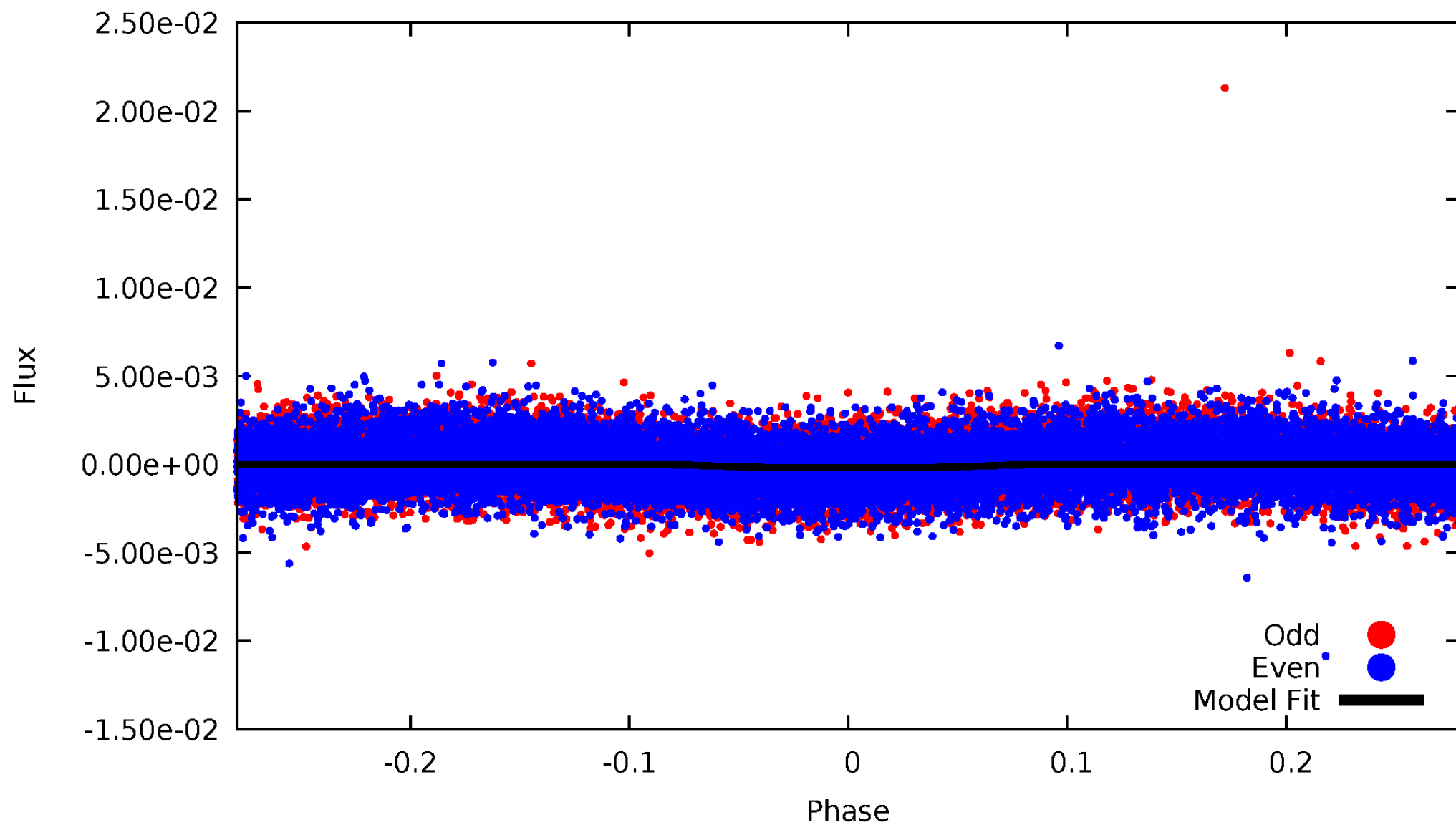


TCE 004647763-01



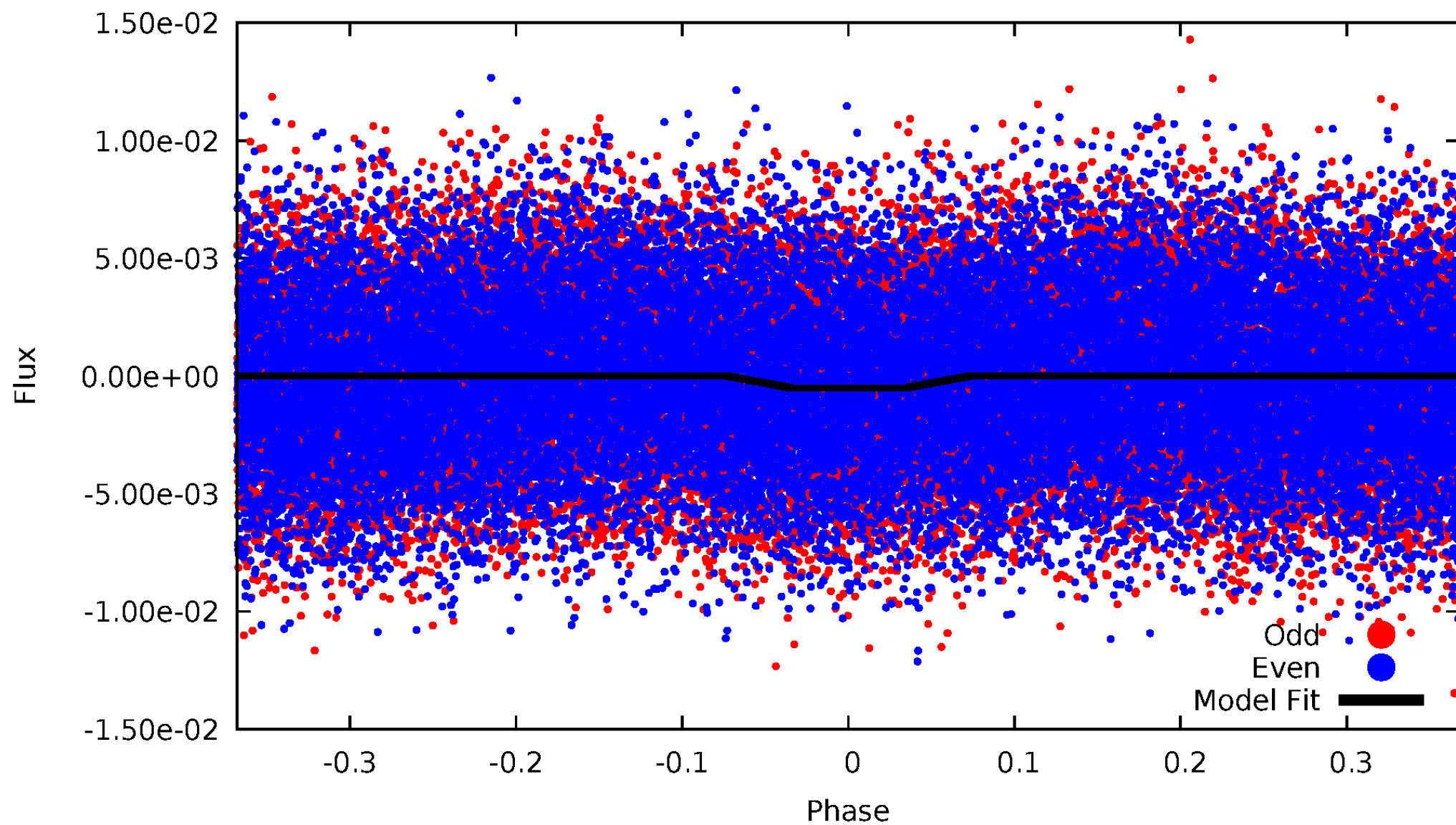
DV Odd/Even

TCE 004647763-01

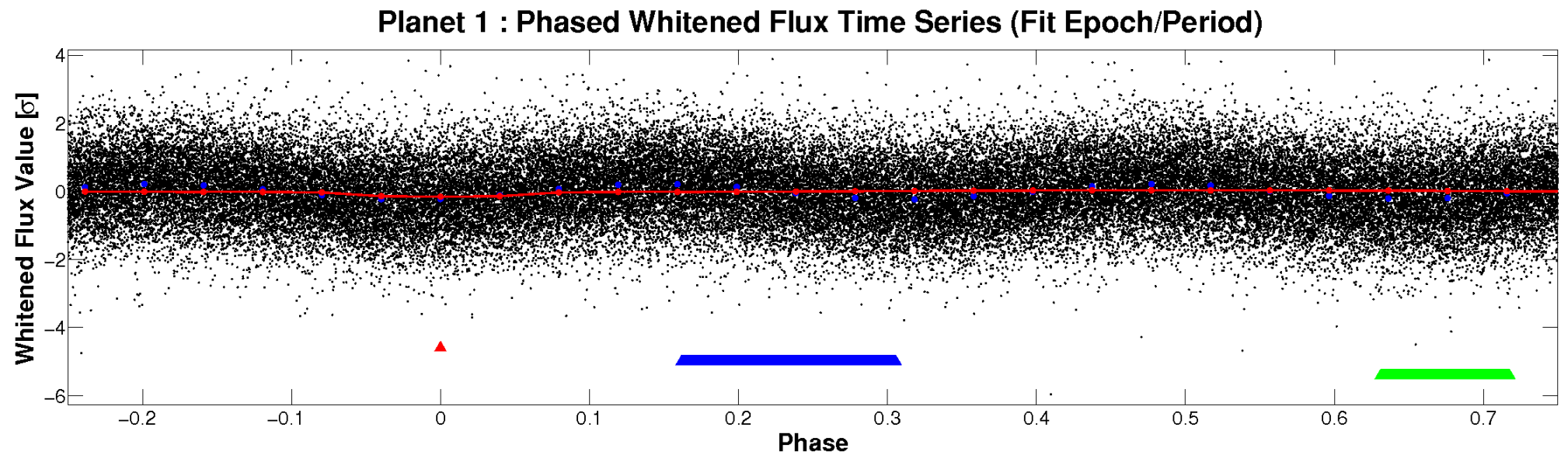
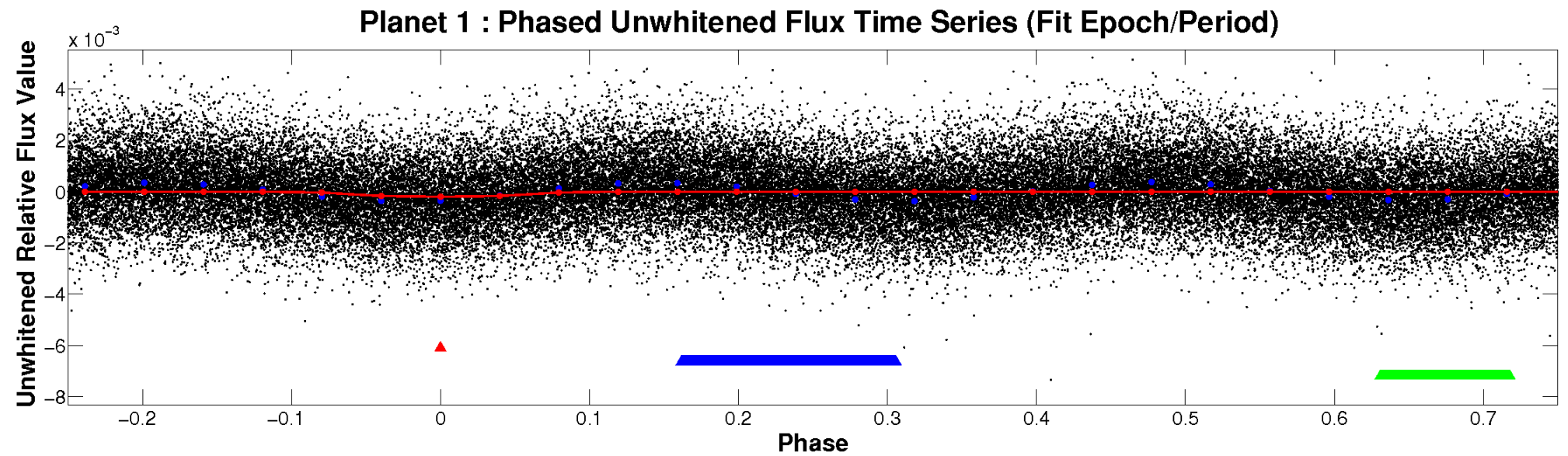


ALT Odd/Even

TCE 004647763-01

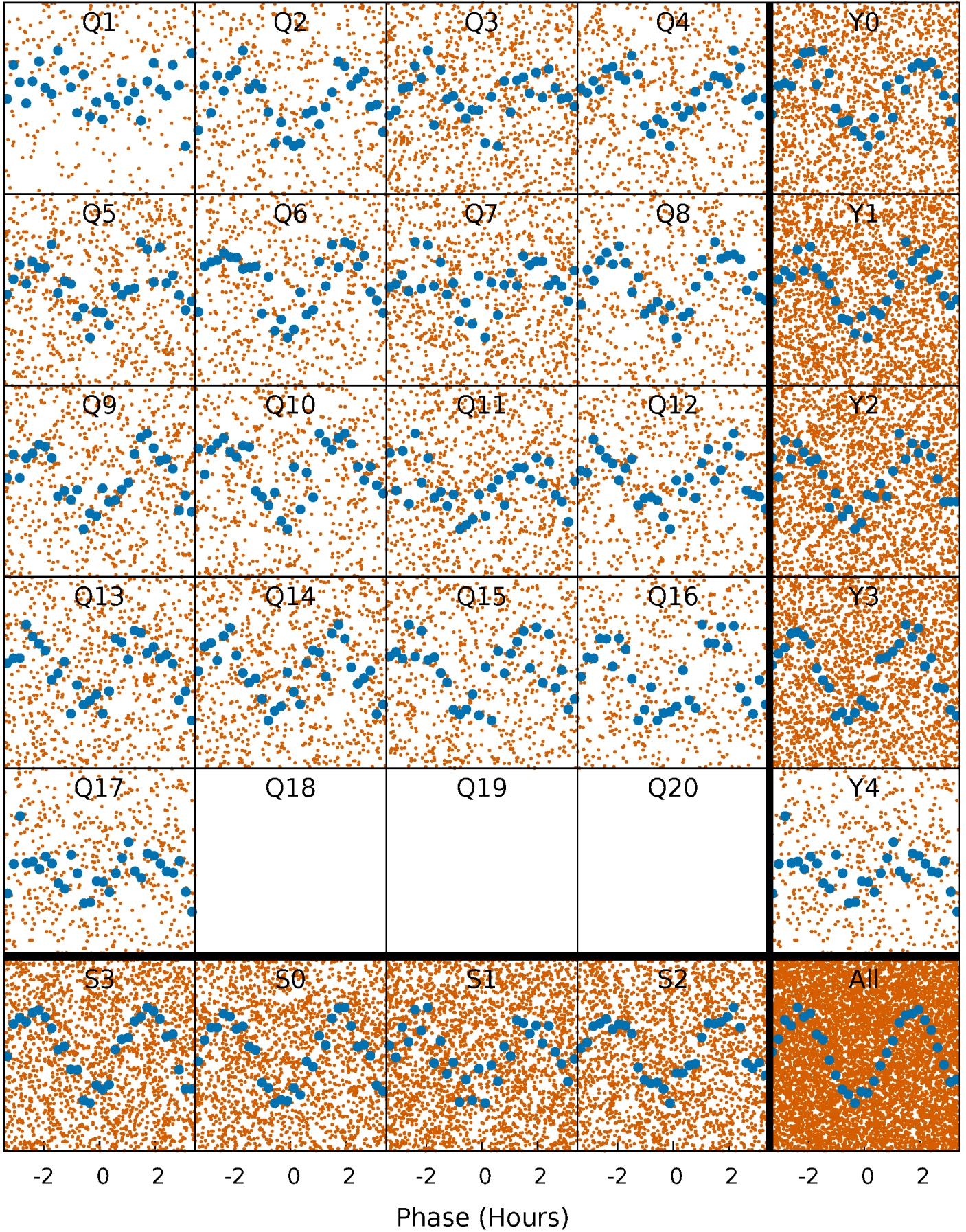


Non-Whitened Vs. Whitened Light Curve



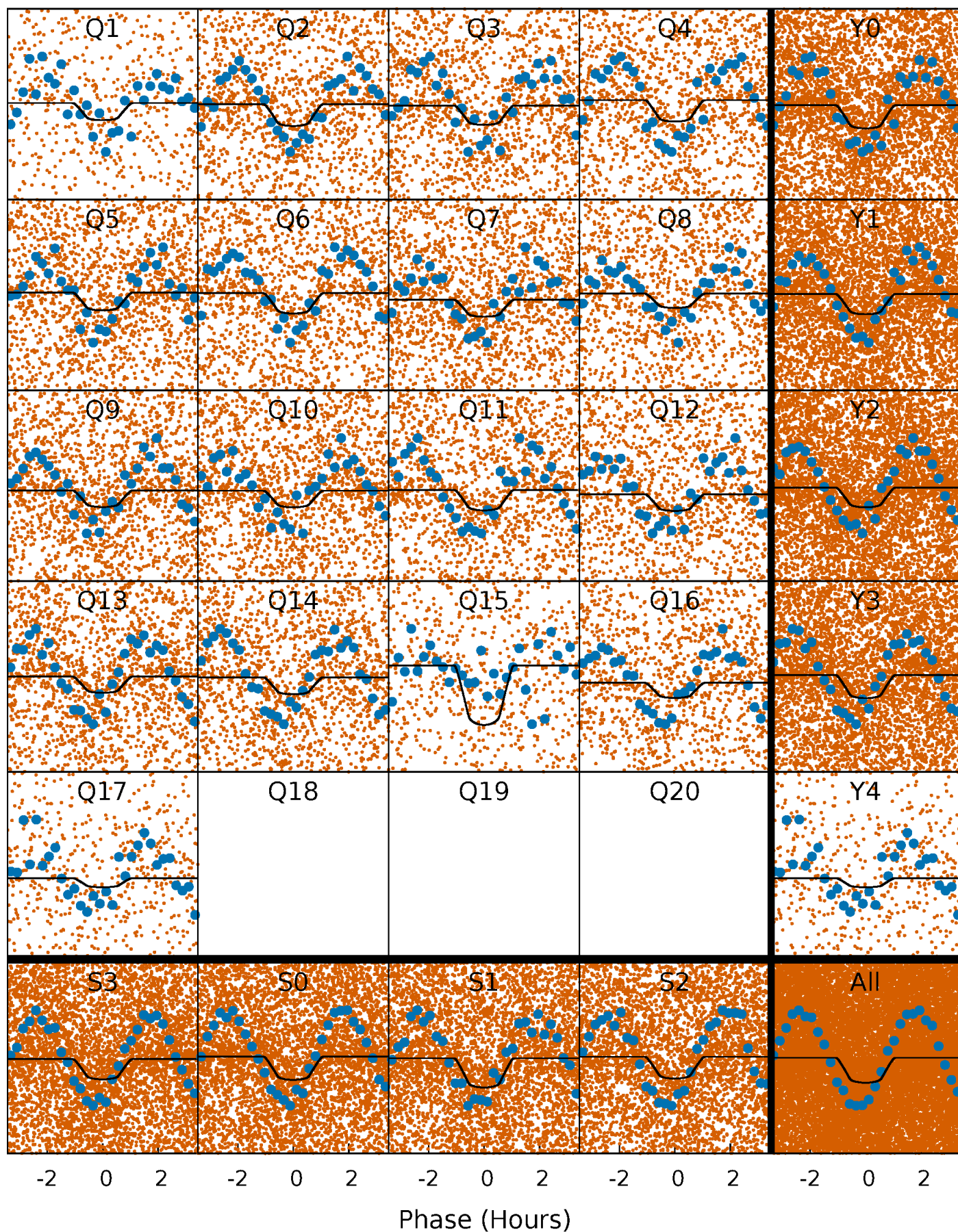
PDC Quarter-Phased Transit Curves

TCE 004647763-01 P= 0.513844 Days $T_0=131.912266$ (BKJD)



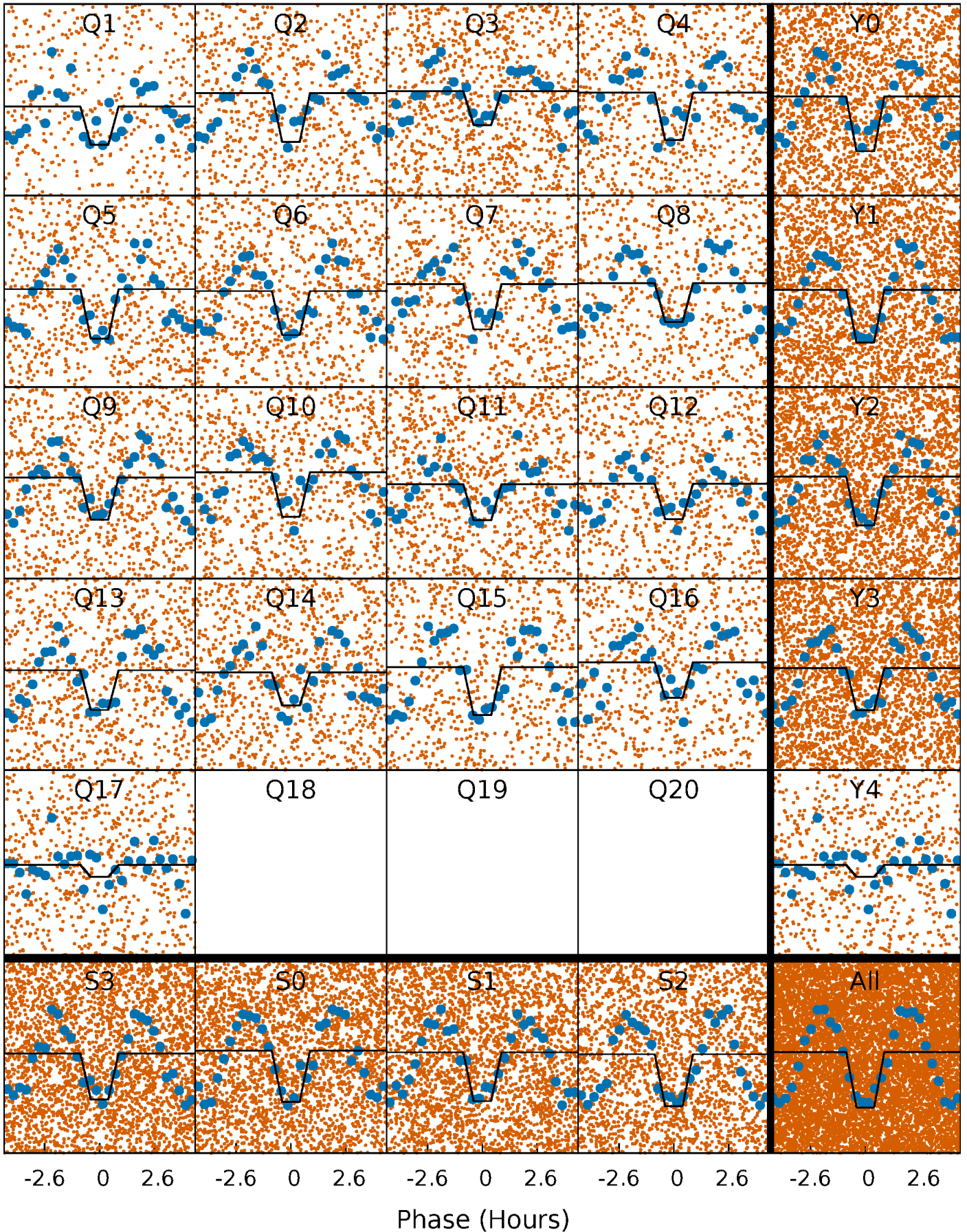
DV Quarter-Phased Transit Curves

TCE 004647763-01 P= 0.513844 Days $T_0=131.912266$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

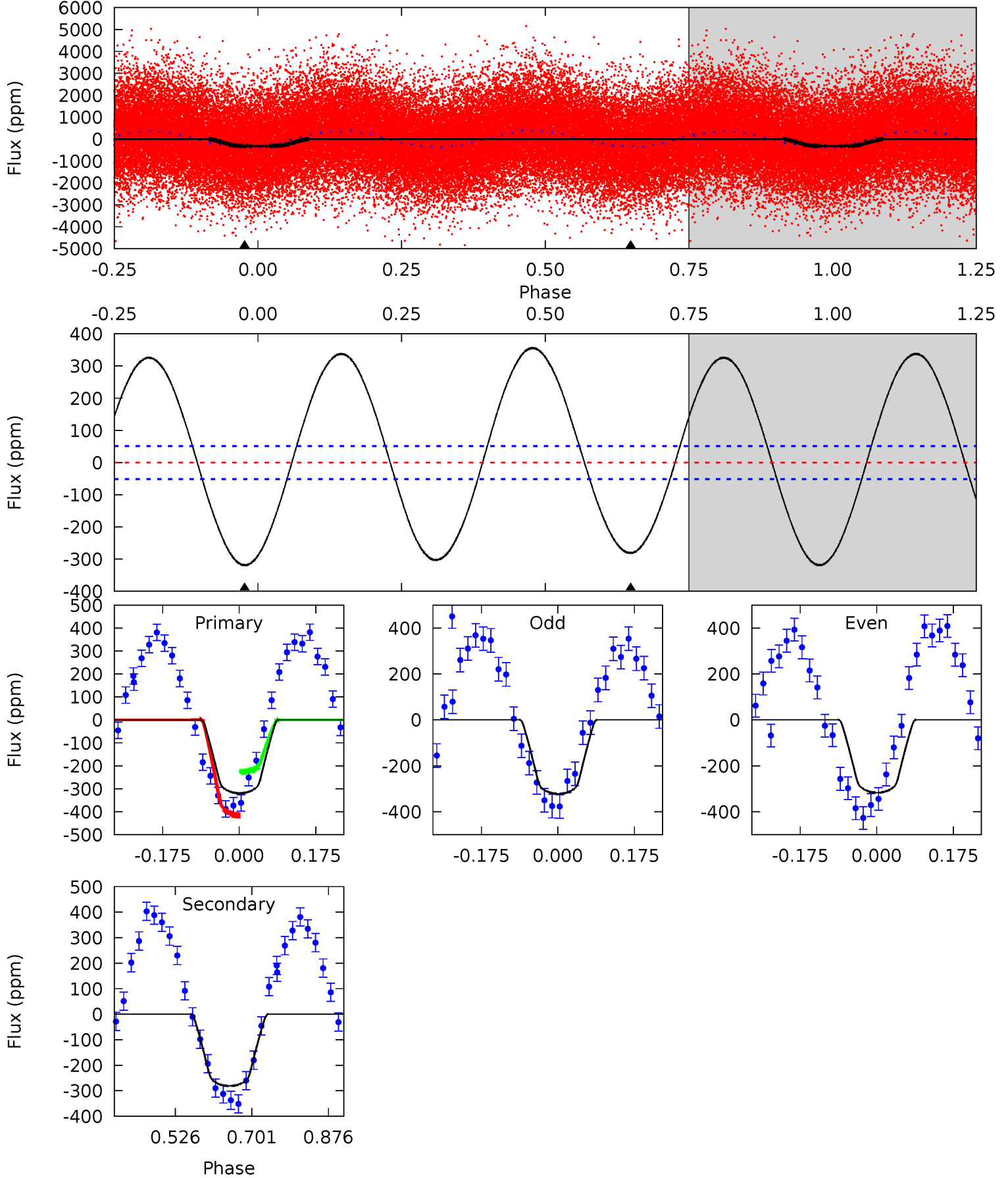
TCE 004647763-01 P= 0.513833 Days $T_0=131.916467$ (BKJD)



DV Model-Shift Uniqueness Test

004647763-01, P = 0.513844 Days, E = 131.398422 Days

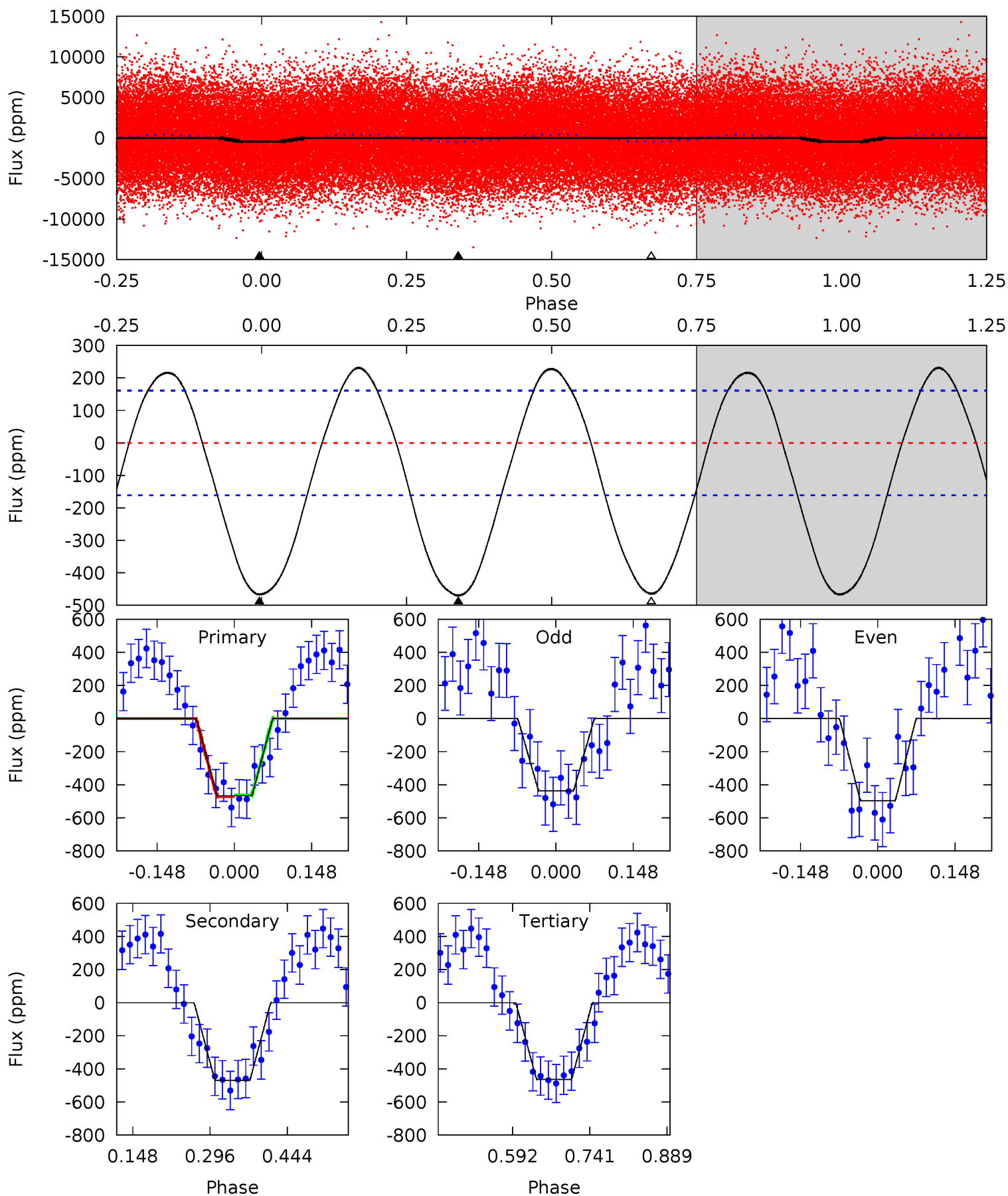
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
27.6	24.3	0	0	4.45	1.36	19.5	27.6	27.6	24.3	24.3	0.23	1.02	0.53	8.25



Alt Model-Shift Uniqueness Test

004647763-01, P = 0.513833 Days, E = 131.402634 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.0	13.1	12.9	0	4.48	1.45	7.08	0.07	13.0	0.16	13.1	0.85	1.01	0.33	0.15



Stellar Parameters For KIC 004647763

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6842^{+122}_{-150}	$3.522^{+0.247}_{-0.082}$	$-0.060^{+0.150}_{-0.100}$	$3.965^{+0.128}_{-1.155}$	$1.906^{+0.169}_{-0.207}$	$0.043^{+0.064}_{-0.011}$
	+2%/-2%	+7%/-2%	+250%/-167%	+3%/-29%	+9%/-11%	+150%/-26%
Source	SPE4	SPE4	SPE4	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 004647763-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-281 ± 12	$6.16^{+2.73}_{-2.50}$	6669^{+222}_{-378}	6571^{+3155}_{-1696}	$0.984^{+1.814}_{-0.507}$
Alt.	-470 ± 36	$9.30^{+2.86}_{-2.73}$	6673^{+210}_{-400}	5864^{+1651}_{-1290}	$0.733^{+0.720}_{-0.306}$

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

DV Centroid Data

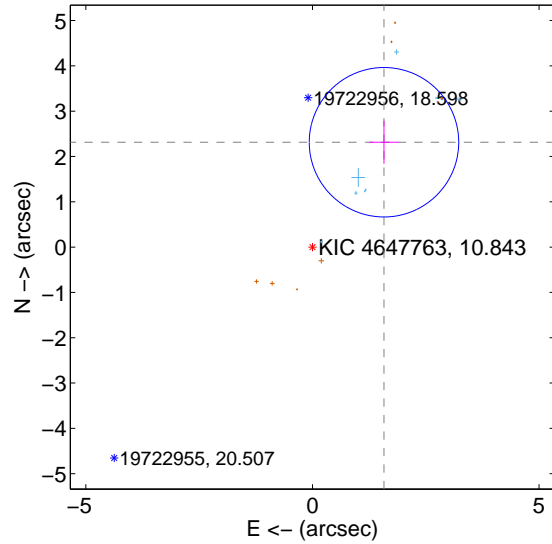
Supplemental centroid analysis for 004647763-01. **Kepler magnitude: 10.84**. Transit SNR 13.49

There are 9 quarters with good PRF difference image offsets

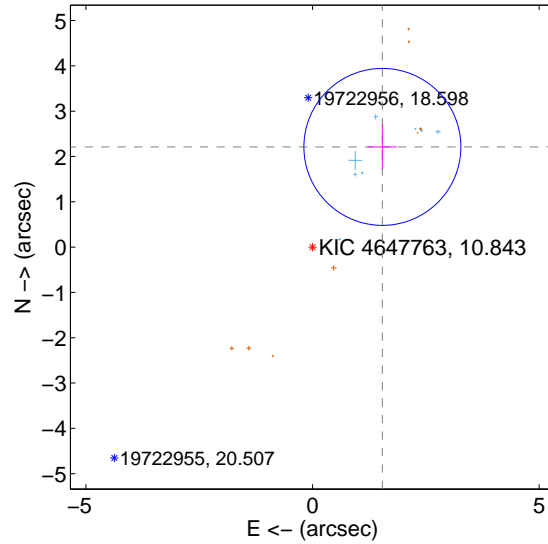
The direct PRF centroid is offset from the target star catalog position by about 0.80 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.802 ± 0.550	5.10	-1.579 ± 0.319	2.314 ± 0.475
PRF-fit source offset from KIC position	2.696 ± 0.577	4.67	-1.542 ± 0.321	2.212 ± 0.499
photometric centroid source offset	0.12 ± 0.08	1.54	0.11 ± 0.06	-0.06 ± 0.12

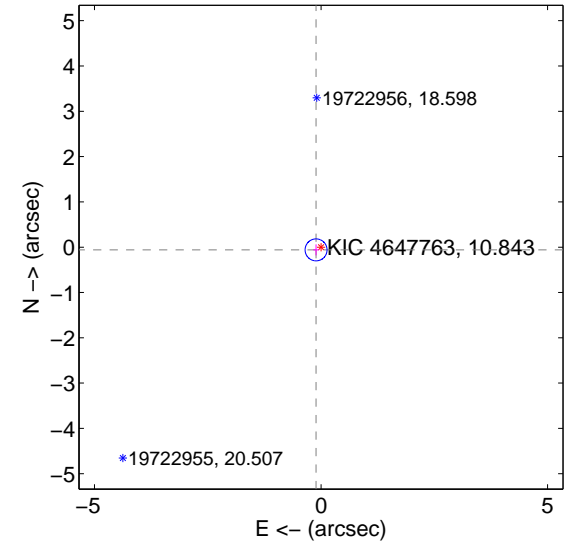
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

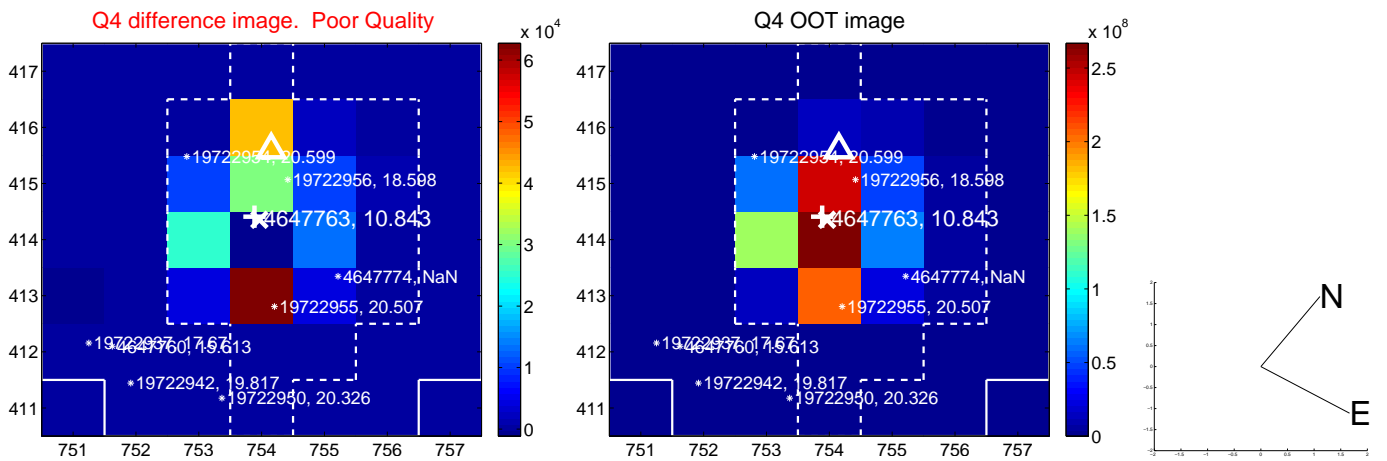
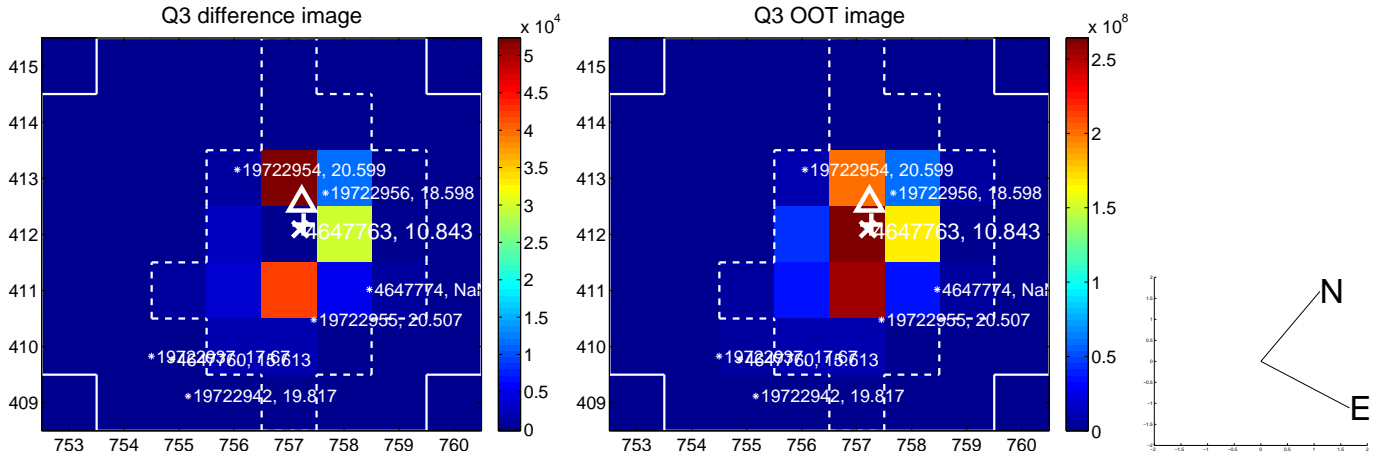
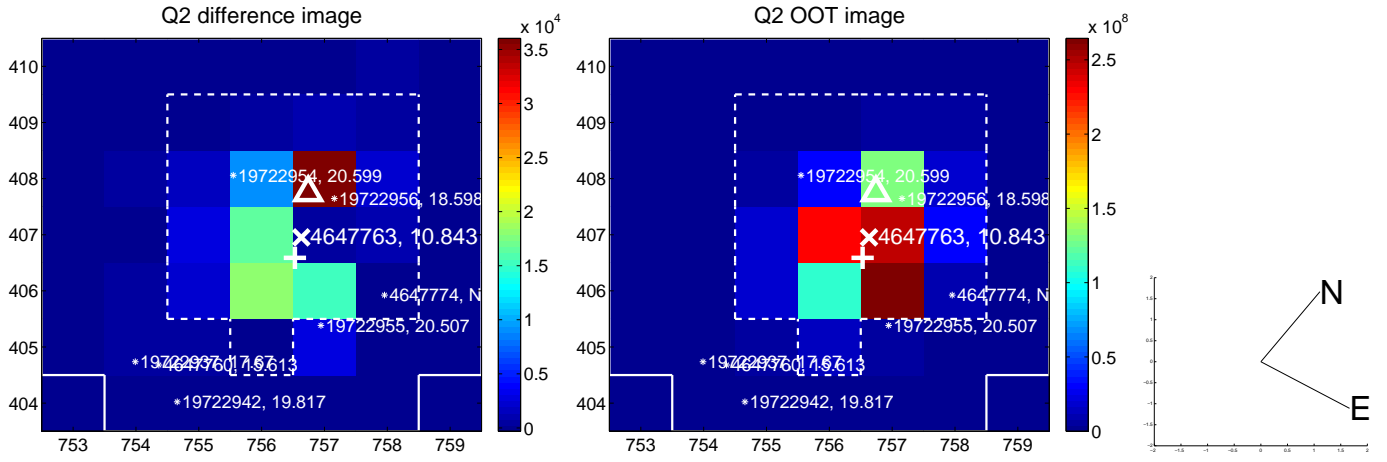
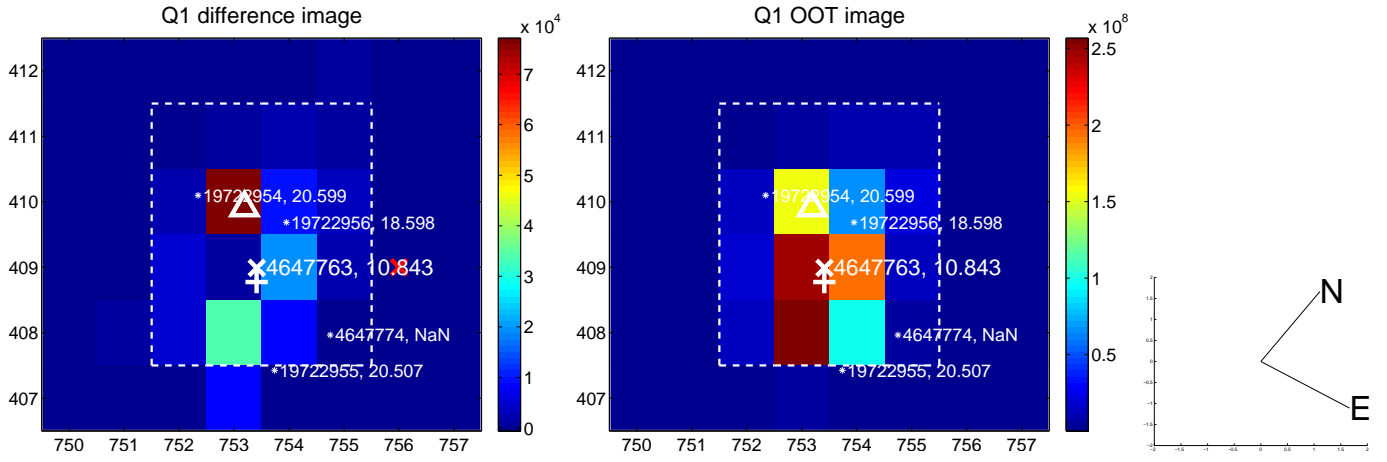


offset from photometric centroids

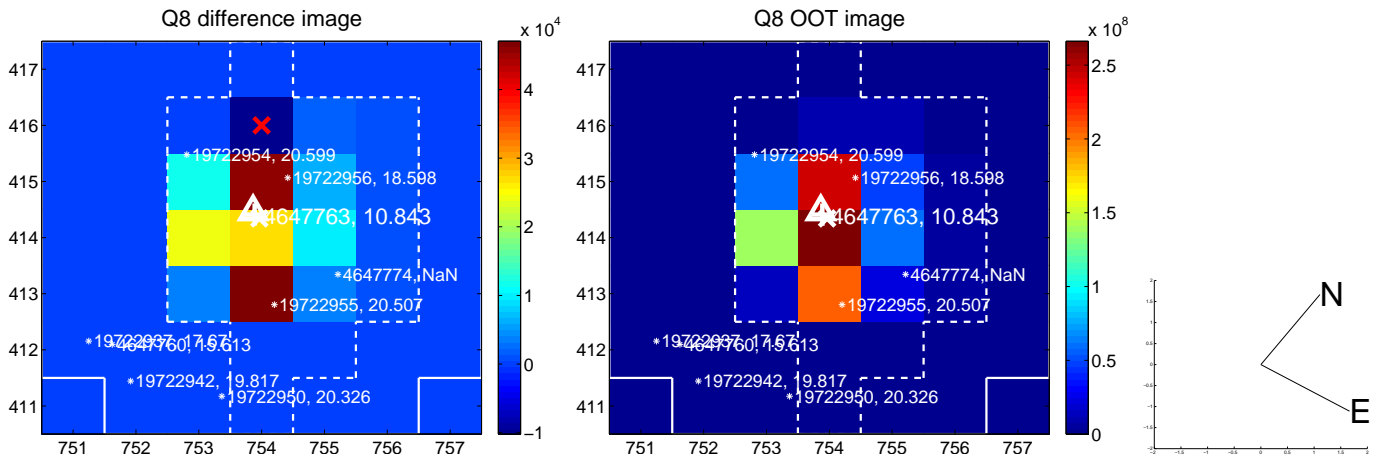
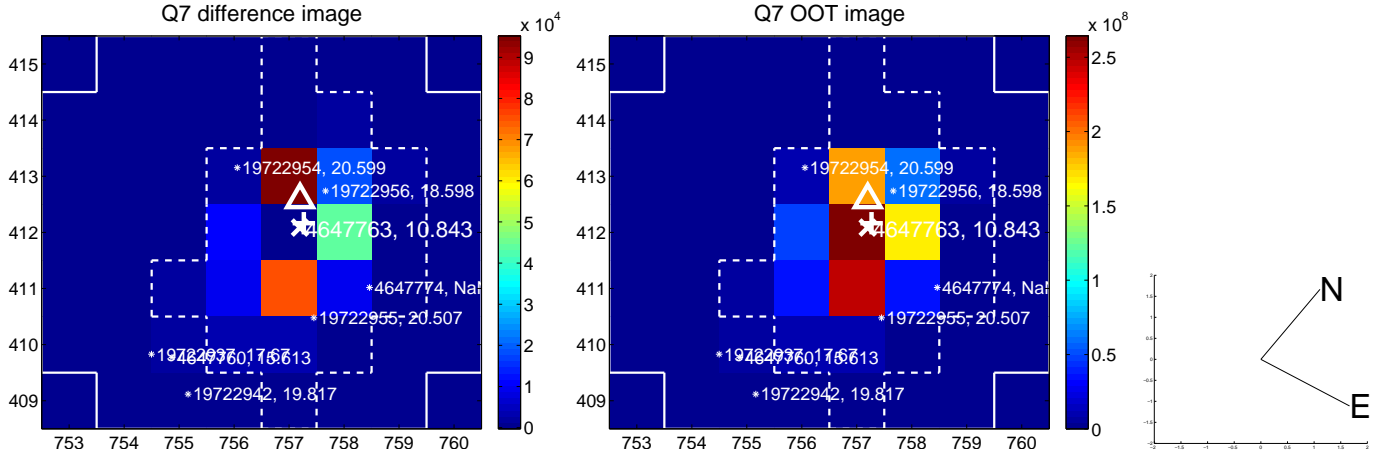
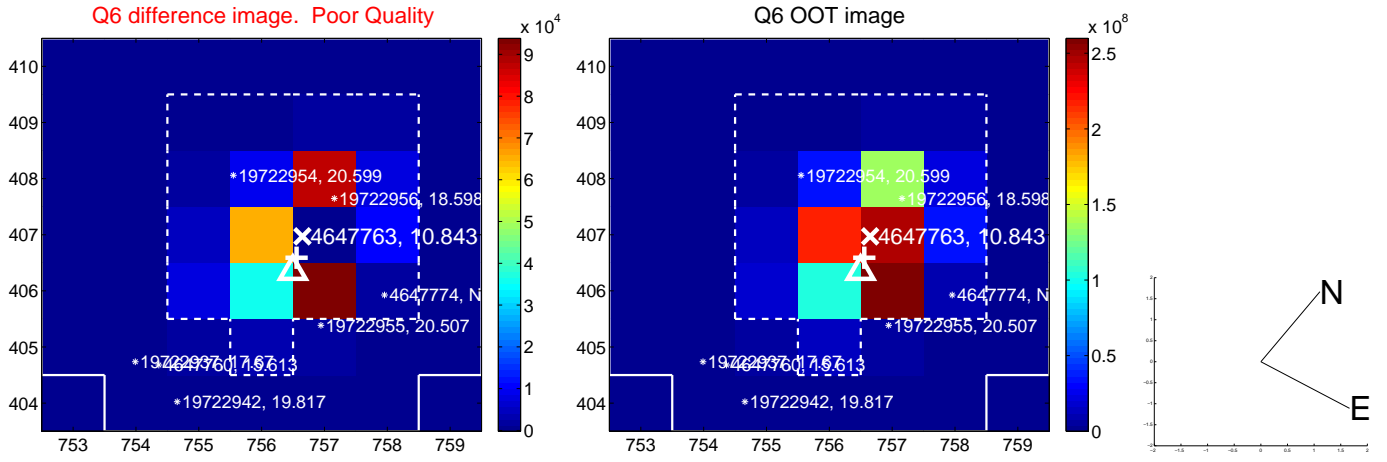
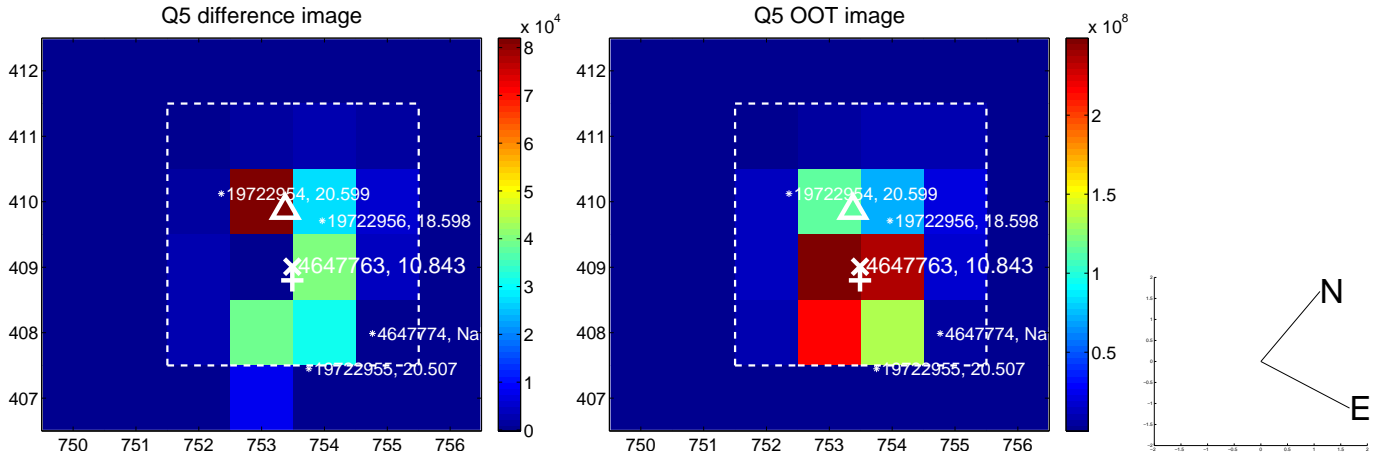


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

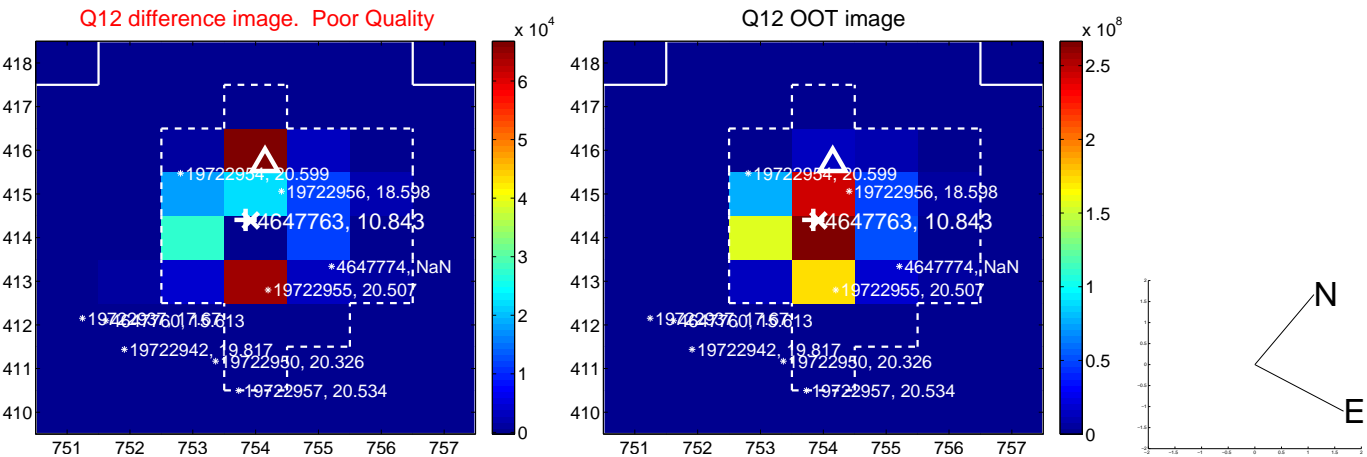
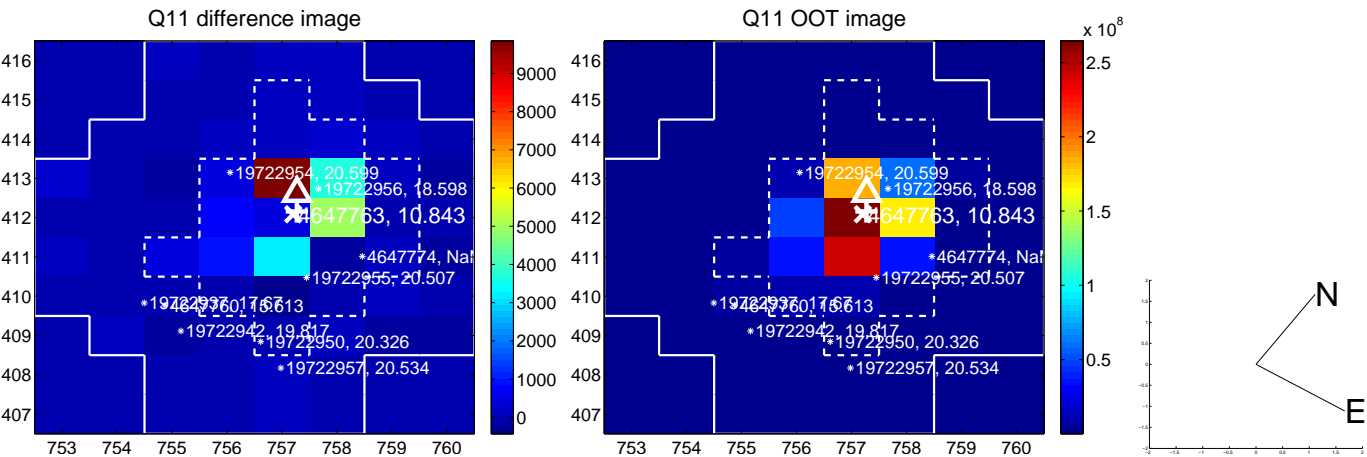
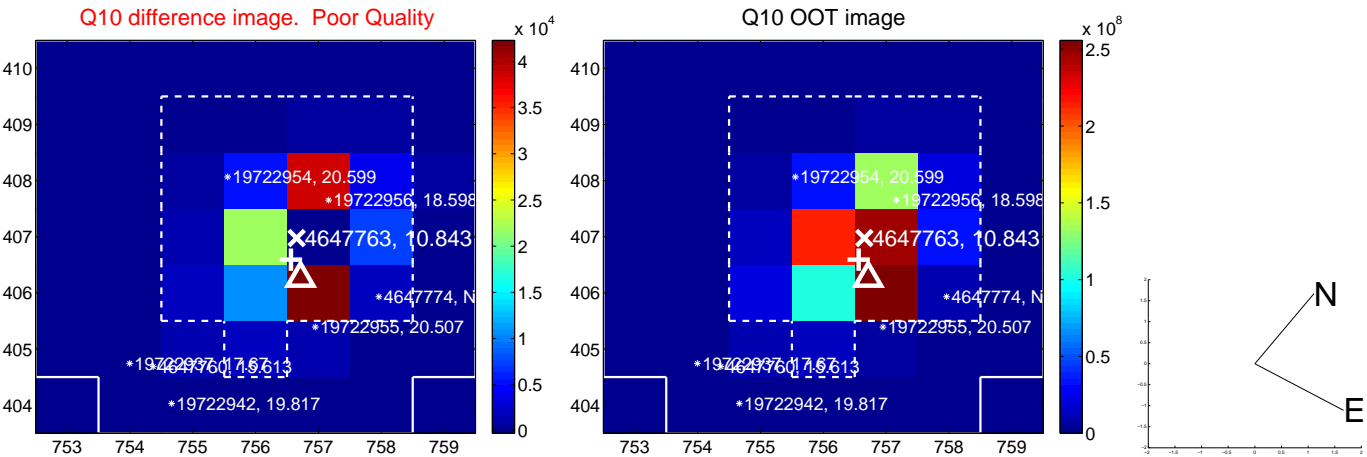
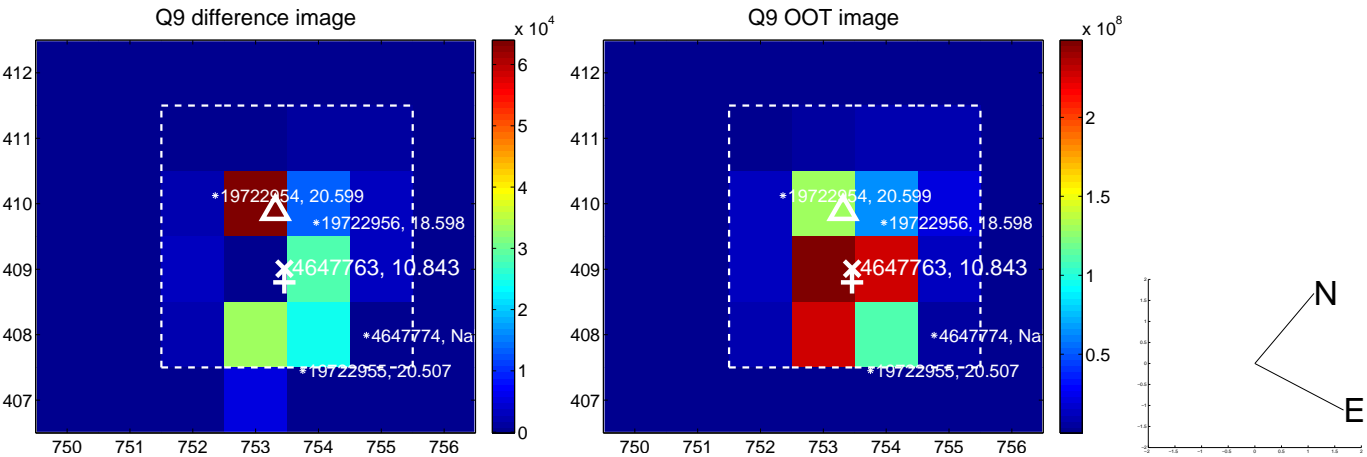
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



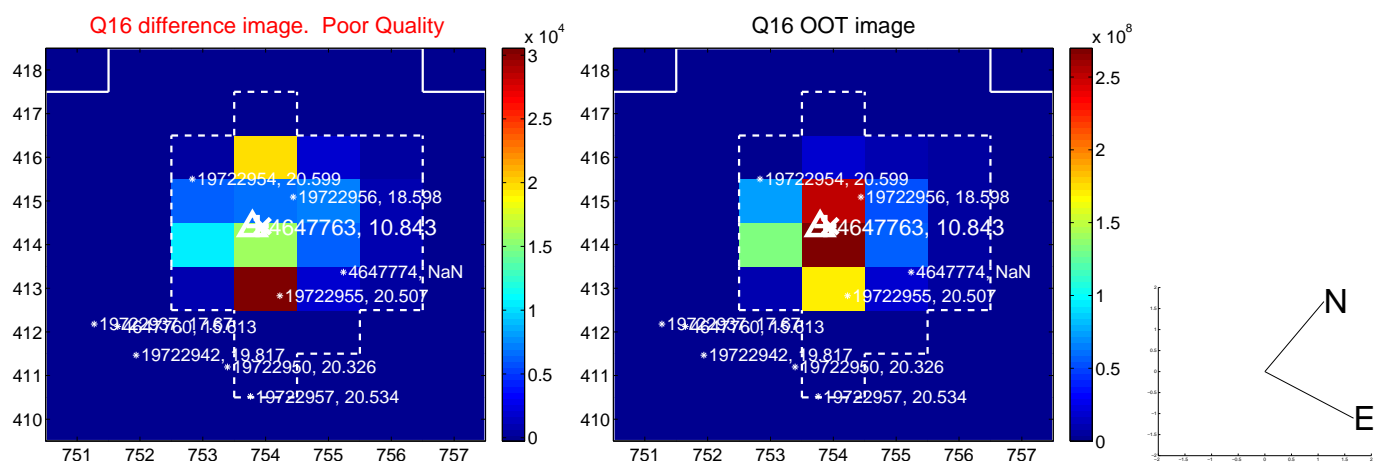
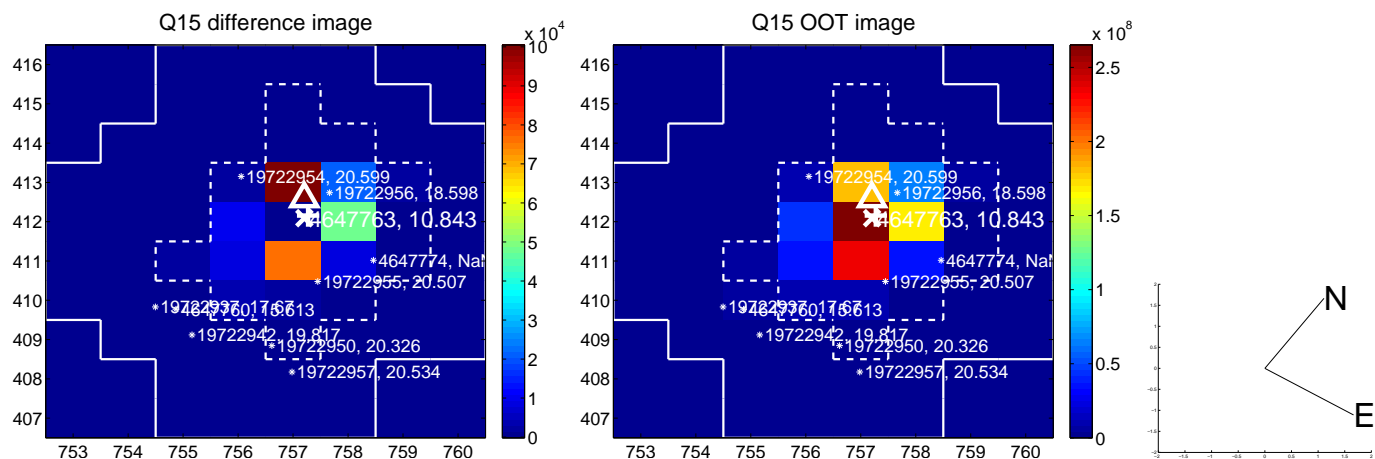
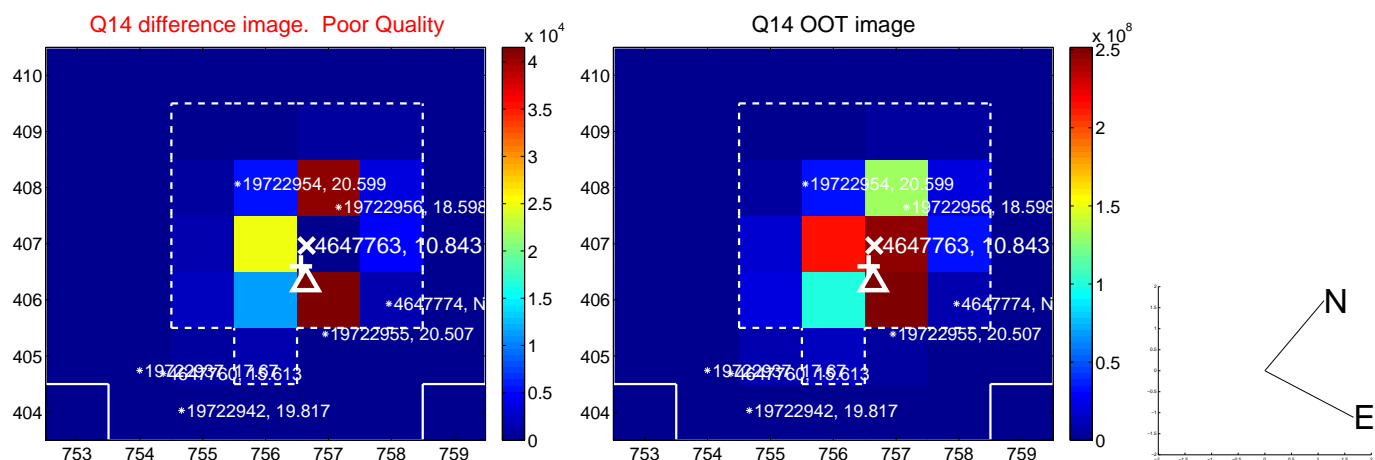
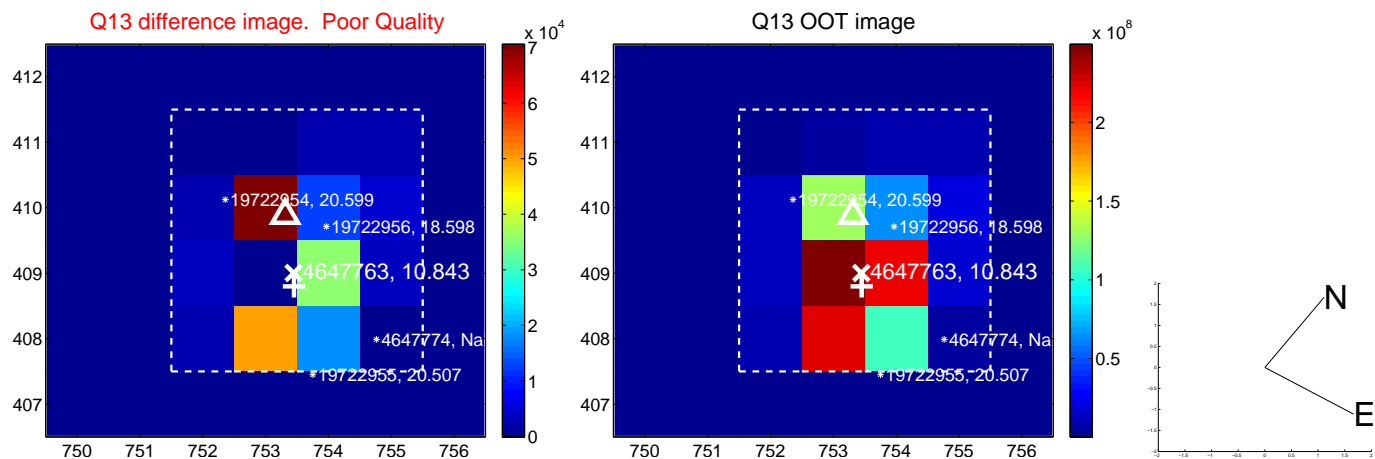
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



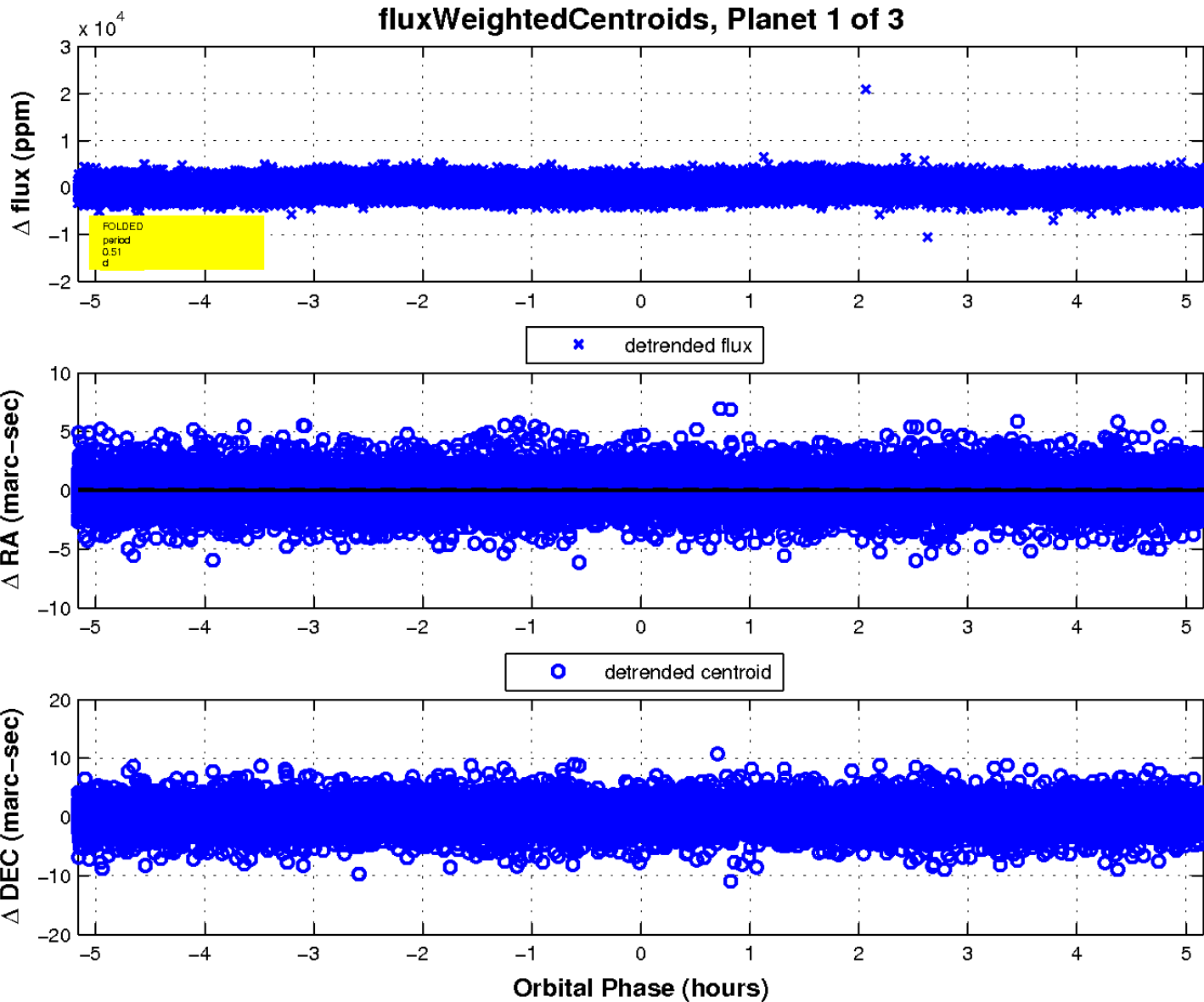
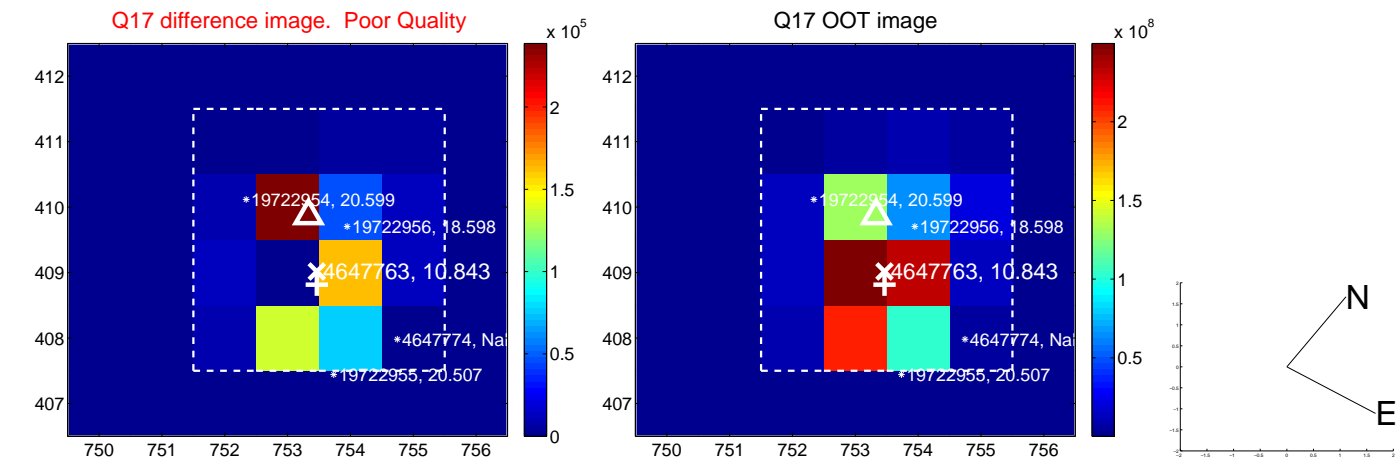
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

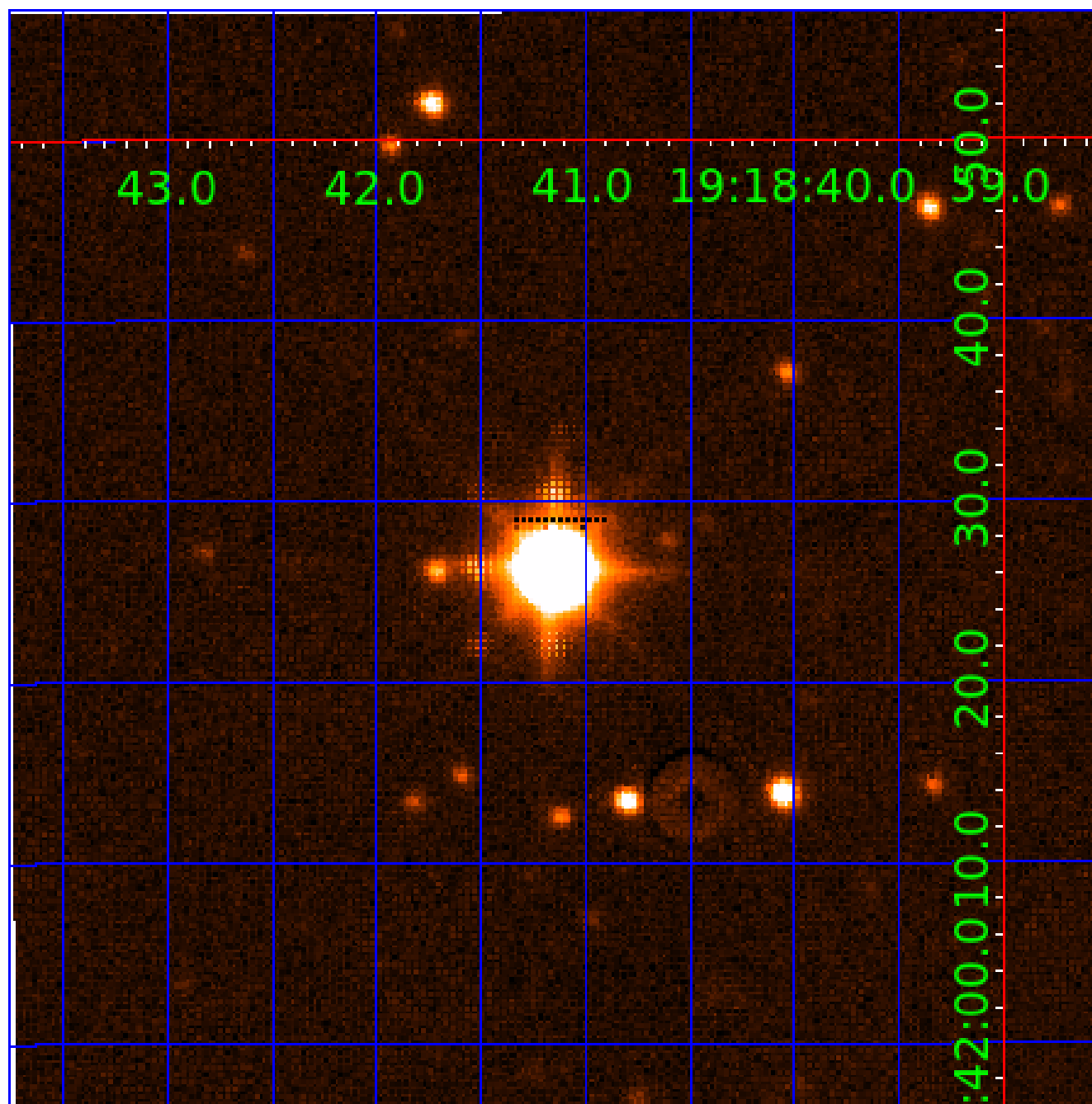


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 004647763

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
004647763-01	OBS	No	0.513844	131.912266	194.2	1.721	12.1	13.5	3.96	6842	6.44	0.00
004647763-02	OBS	No	0.513818	131.555514	178.3	3.290	12.7	12.6	3.96	6842	5.35	0.00
004647763-03	OBS	No	0.513829	131.767244	167.5	1.500	16.1	-1.0	3.96	6842	5.20	127261.68

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004647763-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_SATURATED
004647763-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
004647763-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—NO_FITS—SAME_NTL_PERIOD—CENT_SATURATED

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

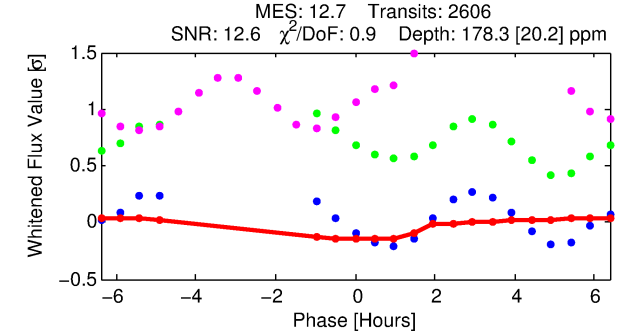
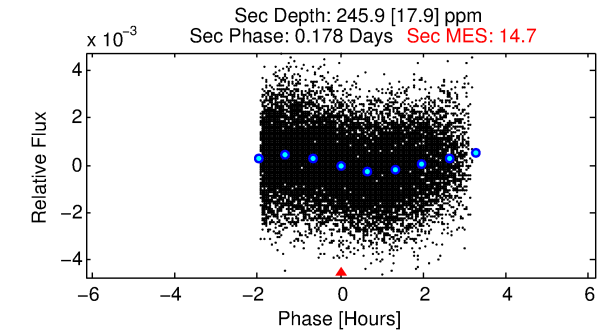
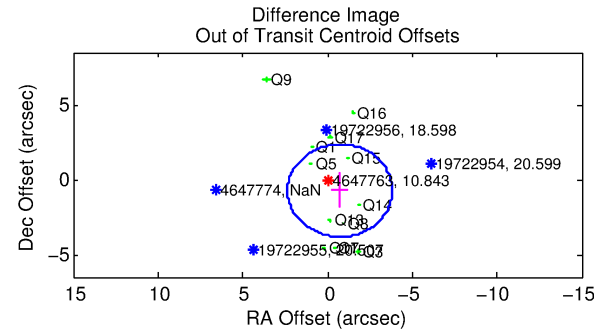
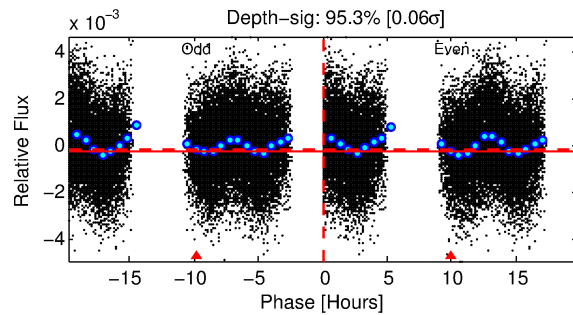
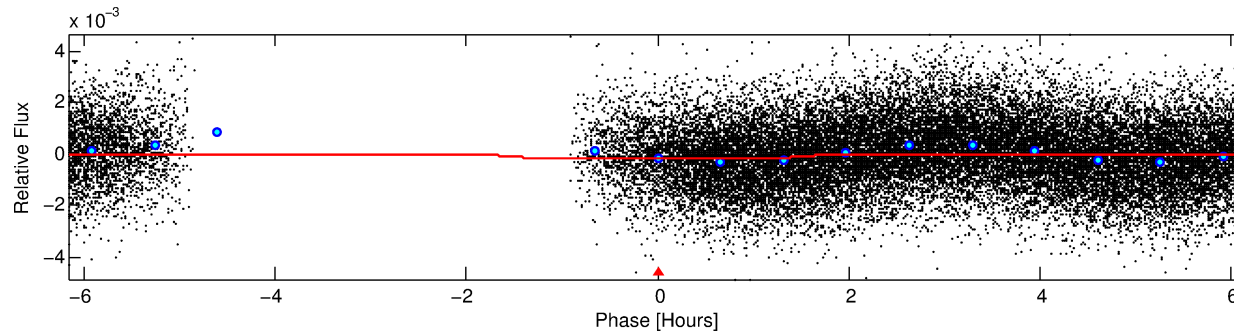
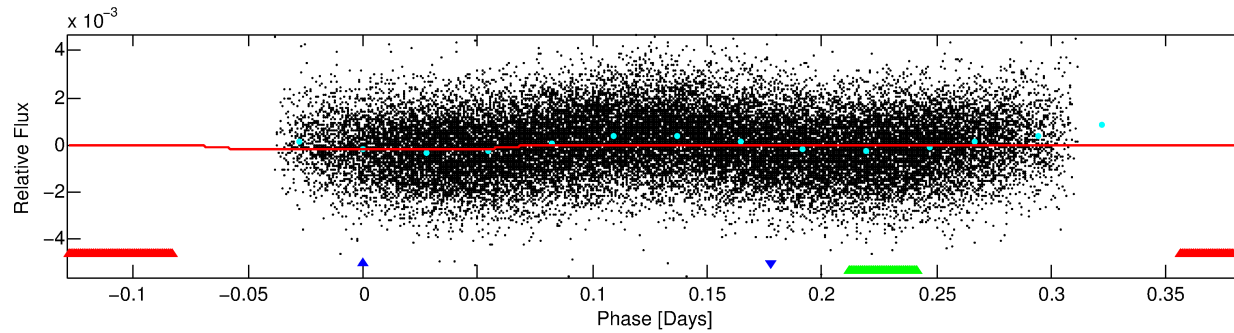
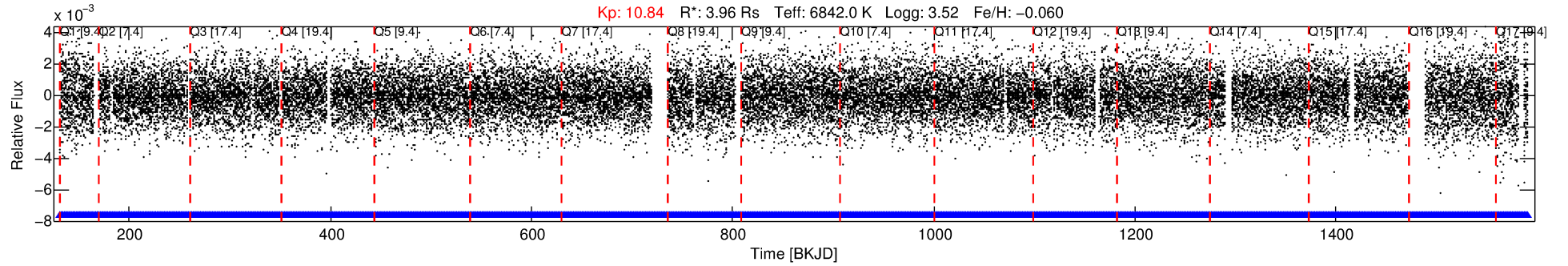
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004647763-02

No Significant Match Found

DV One-Page Summary

KIC: 4647763 Candidate: 2 of 3 Period: 0.514 d



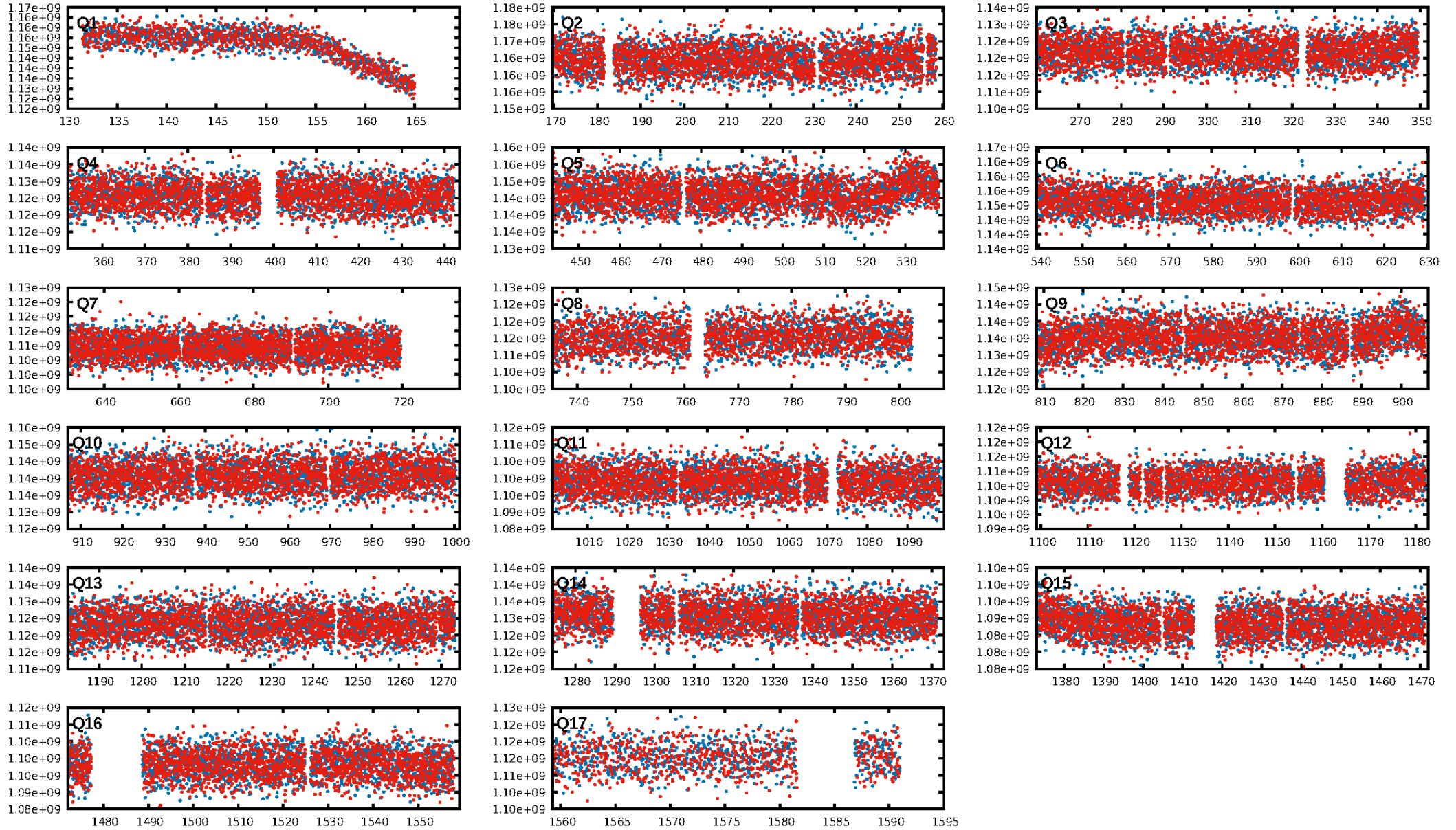
DV Fit Results:

Period = 0.51382 [0.00001] d
Epoch = 131.5555 [0.0092] BKJD
 $R_p/R^* = 0.0124$ [0.0107]
 $a/R^* = 1.36$ [2.98]
 $b = 0.10$ [47.86]
 $\text{Seff} = \text{N/A}$
 $\text{Teq} = \text{N/A}$
 $R_p = 5.35$ [4.90] R_e
 $a = \text{N/A}$
 $\text{Ag} = \text{N/A}$
 $\text{Teff} = \text{N/A}$

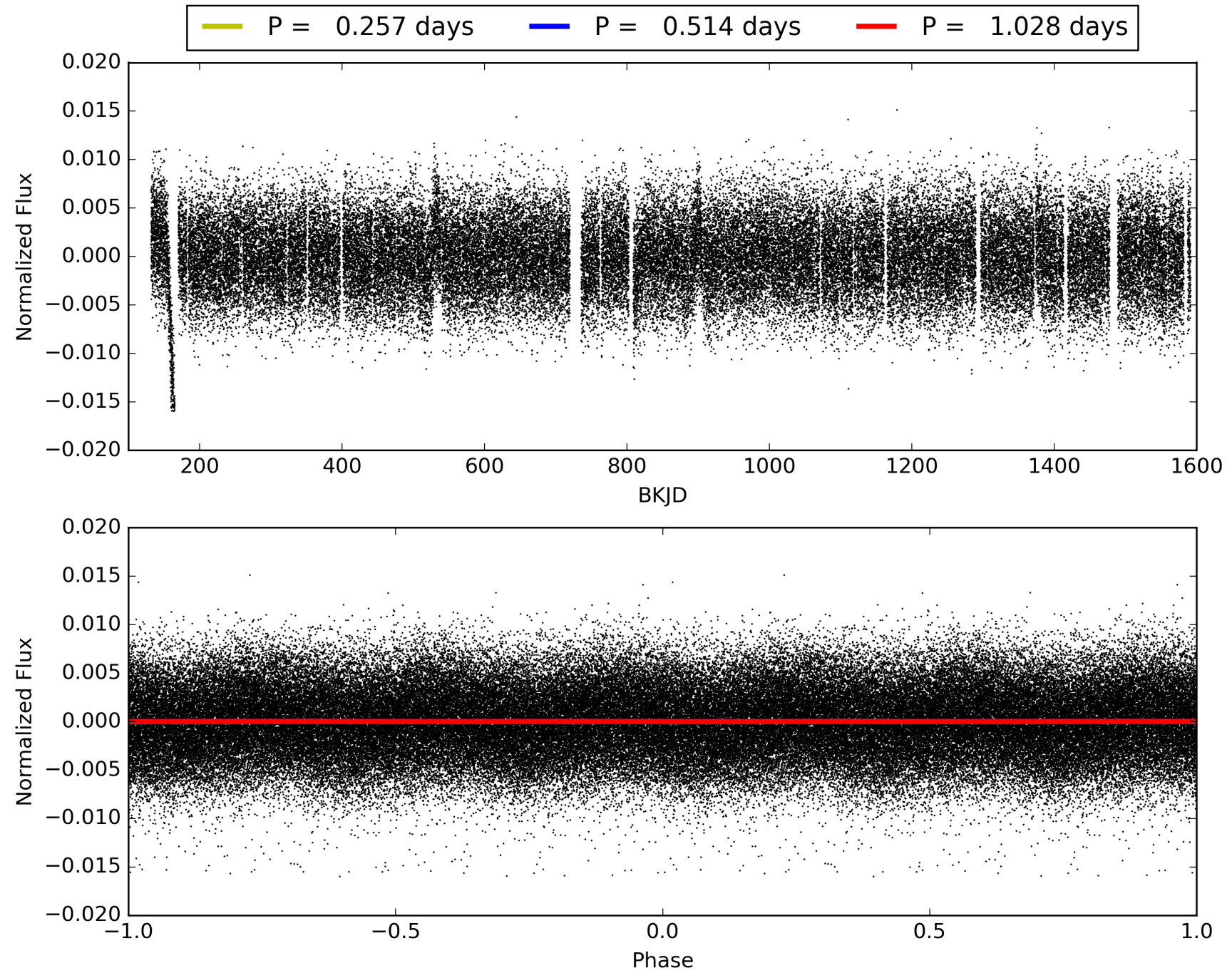
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2489/2489]
GhostDiagnostic-chr: 0.509
Centroid-sig: N/A
Centroid-so: 0.685 arcsec [8.37 σ]
OotOffset-rm: 1.028 arcsec [1.00 σ]
KicOffset-rm: 1.344 arcsec [1.35 σ]
OotOffset-st: 1/4/2/5 [12]
KicOffset-st: 1/4/2/5 [12]
DiffImageQuality-fgm: 0.25 [3/12]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 004647763-02, PDC Light Curves

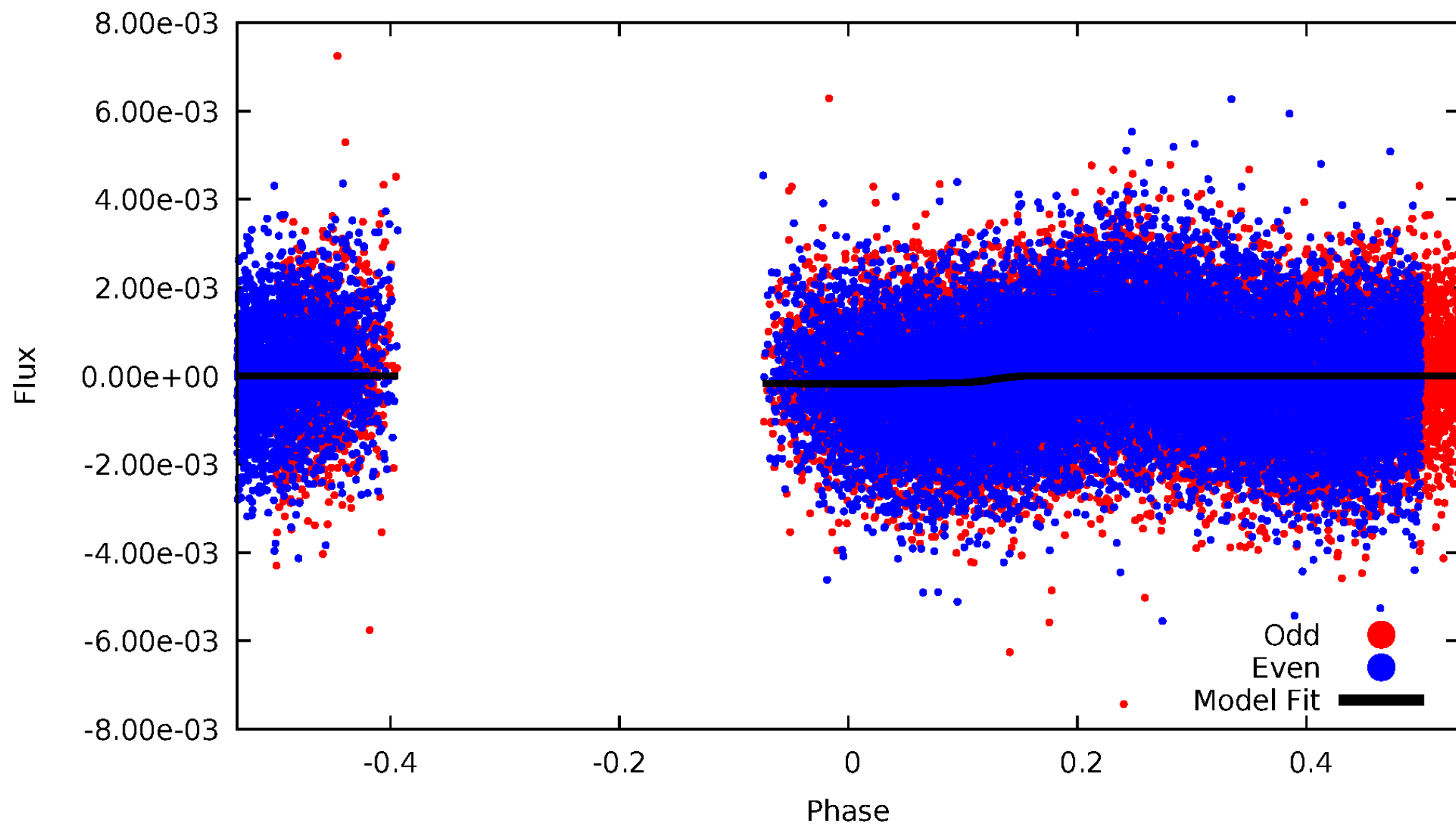


TCE 004647763-02



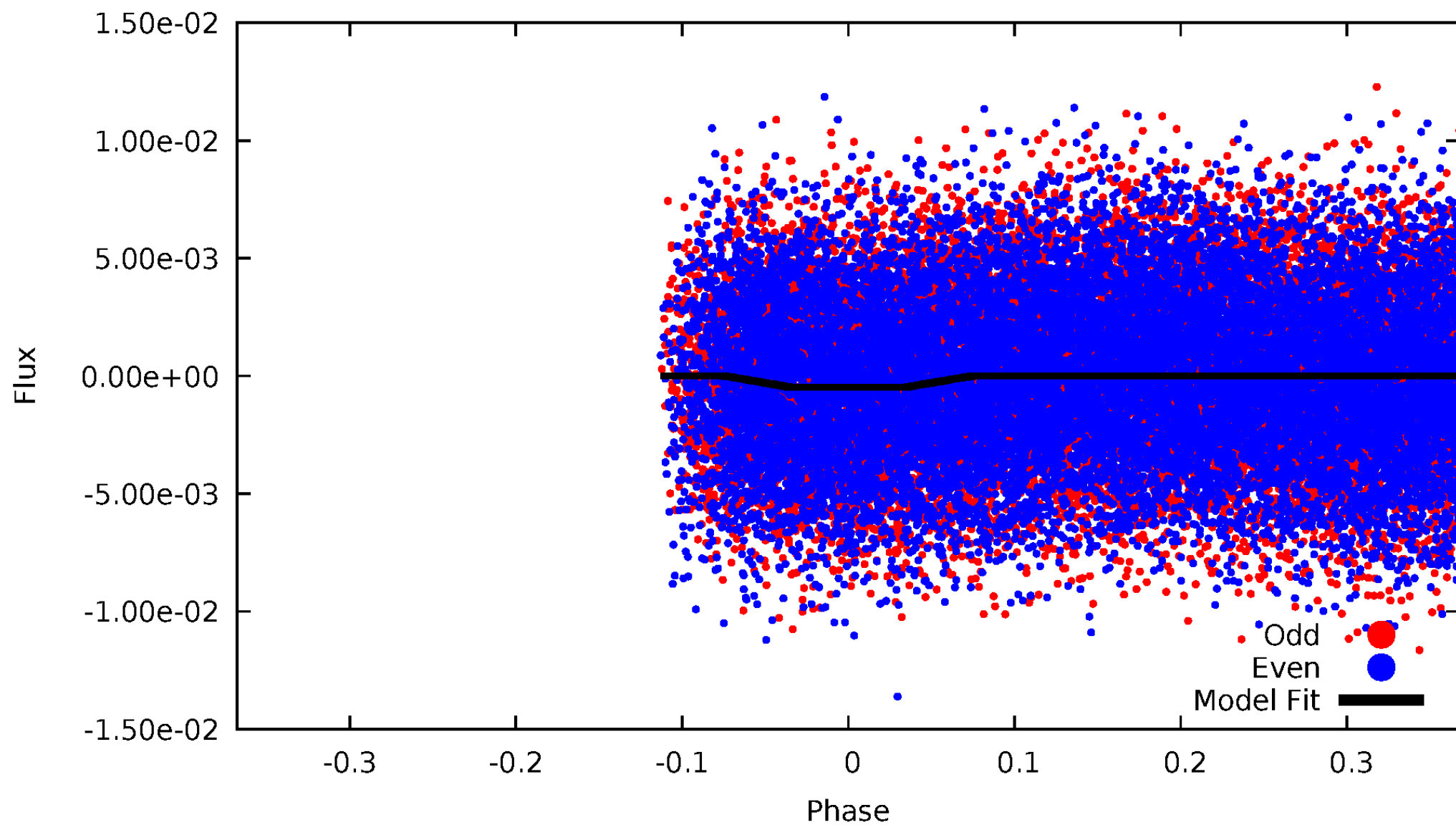
DV Odd/Even

TCE 004647763-02



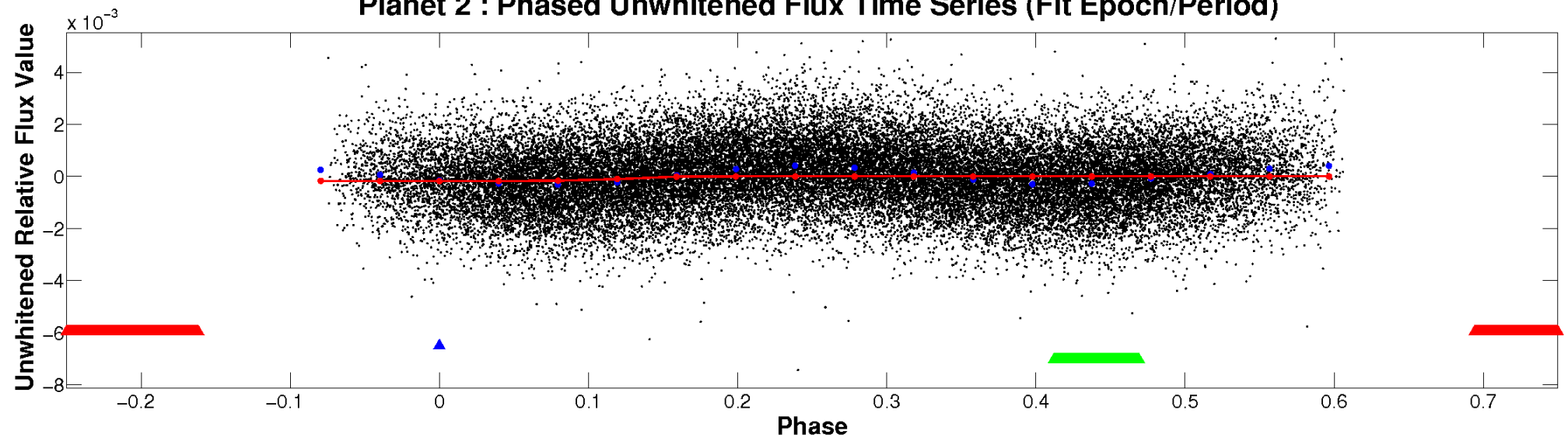
ALT Odd/Even

TCE 004647763-02

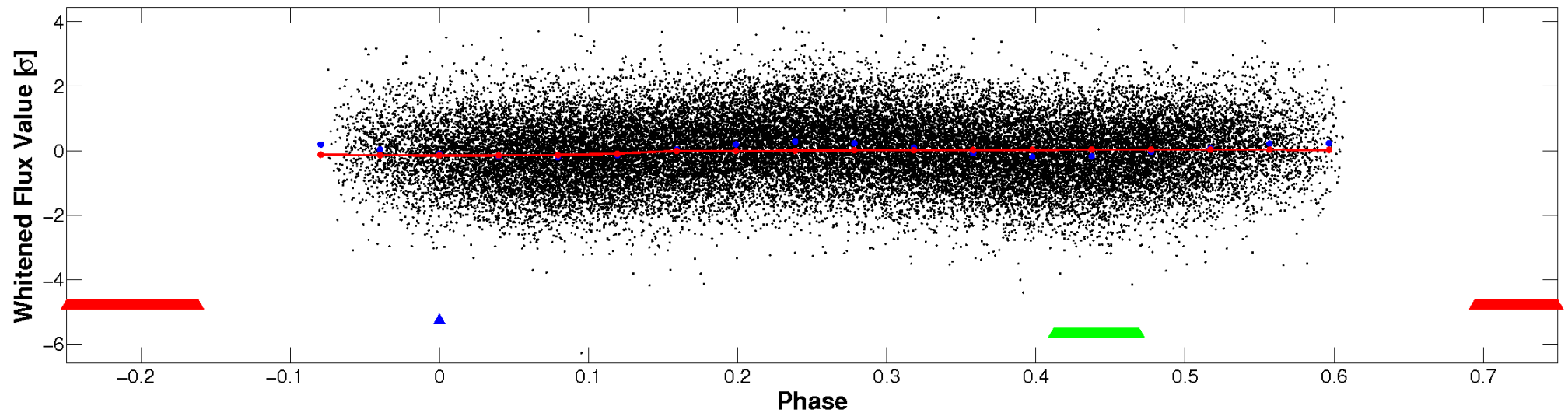


Non-Whitened Vs. Whitened Light Curve

Planet 2 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

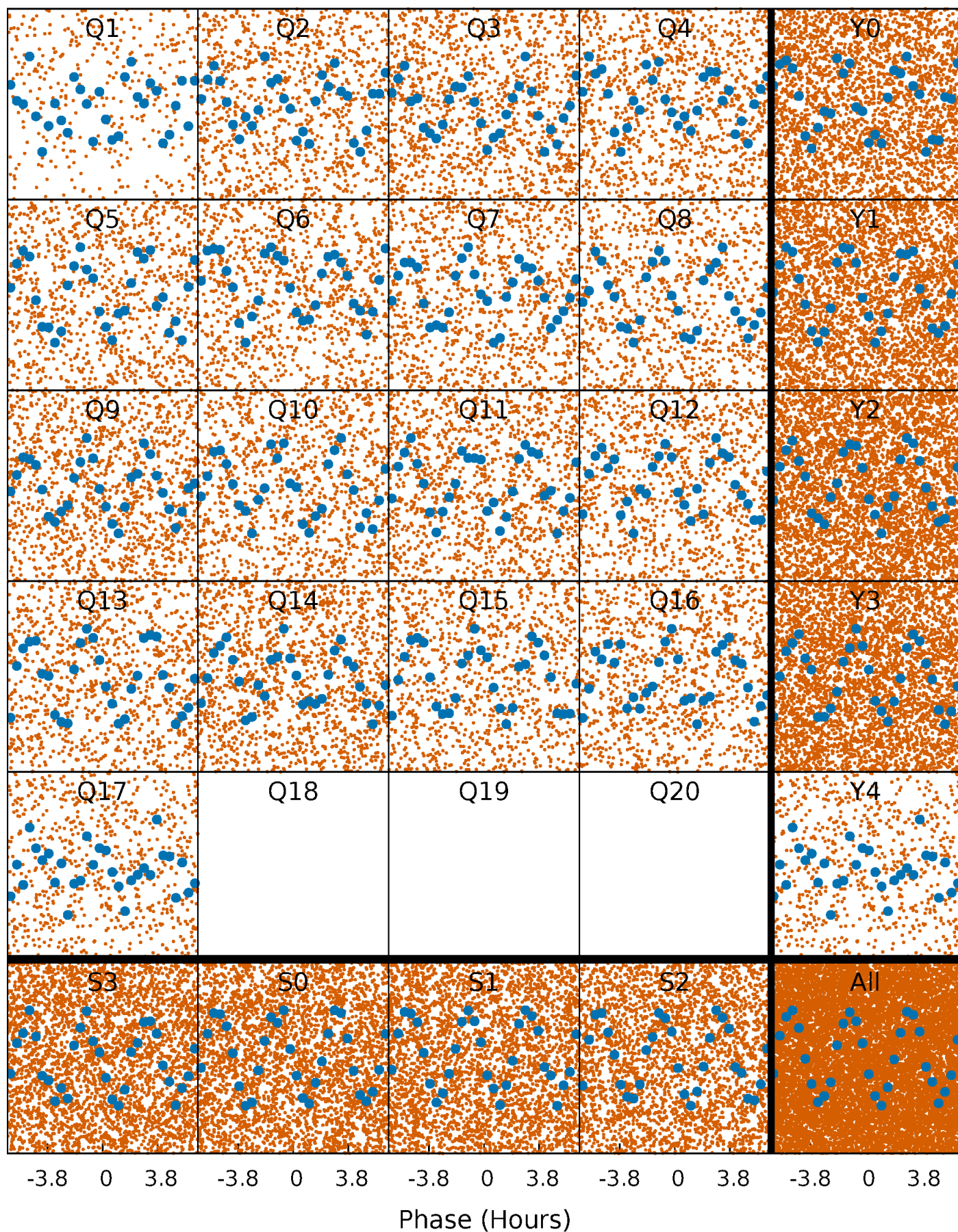


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



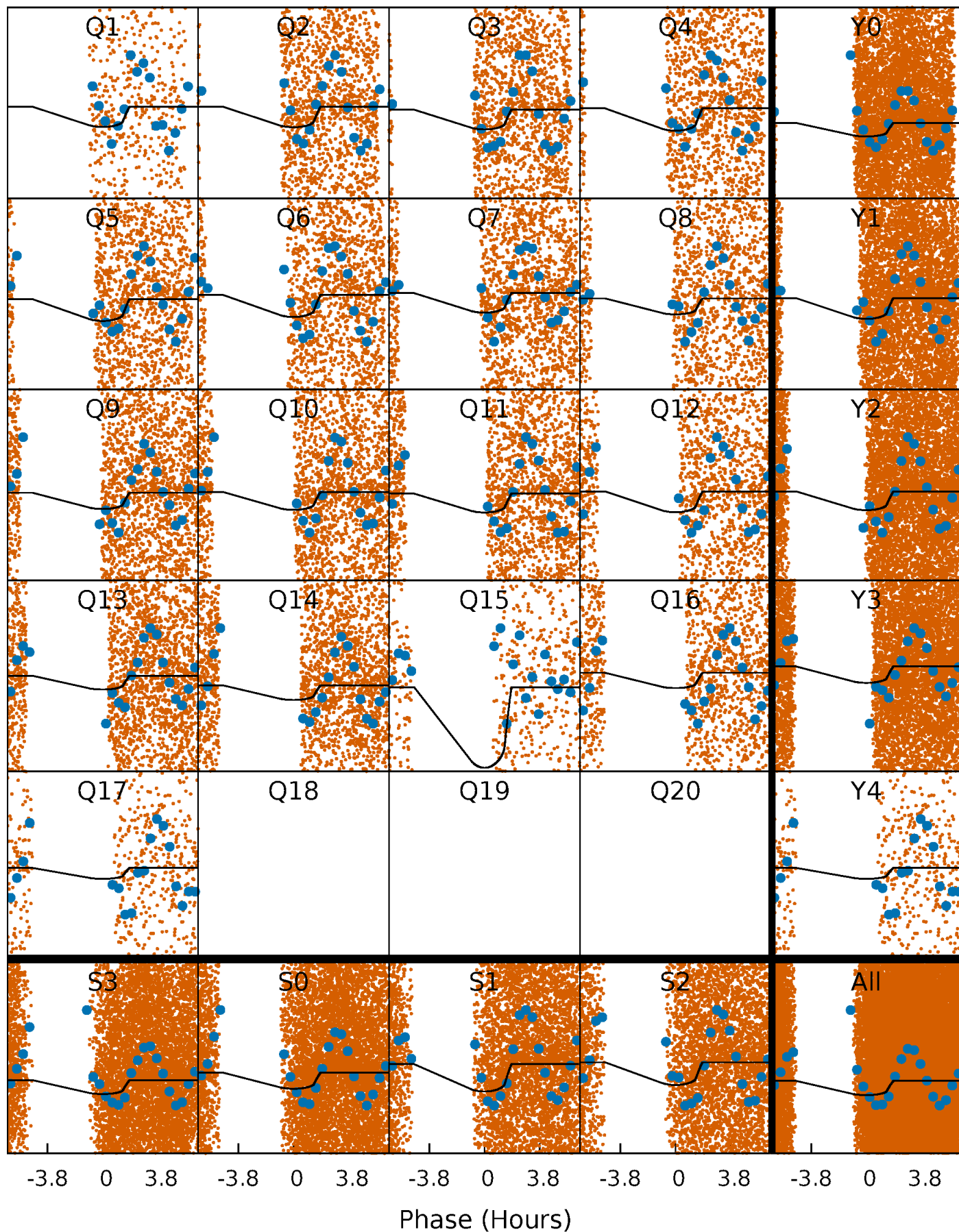
PDC Quarter-Phased Transit Curves

TCE 004647763-02 P= 0.513818 Days $T_0=131.555514$ (BKJD)



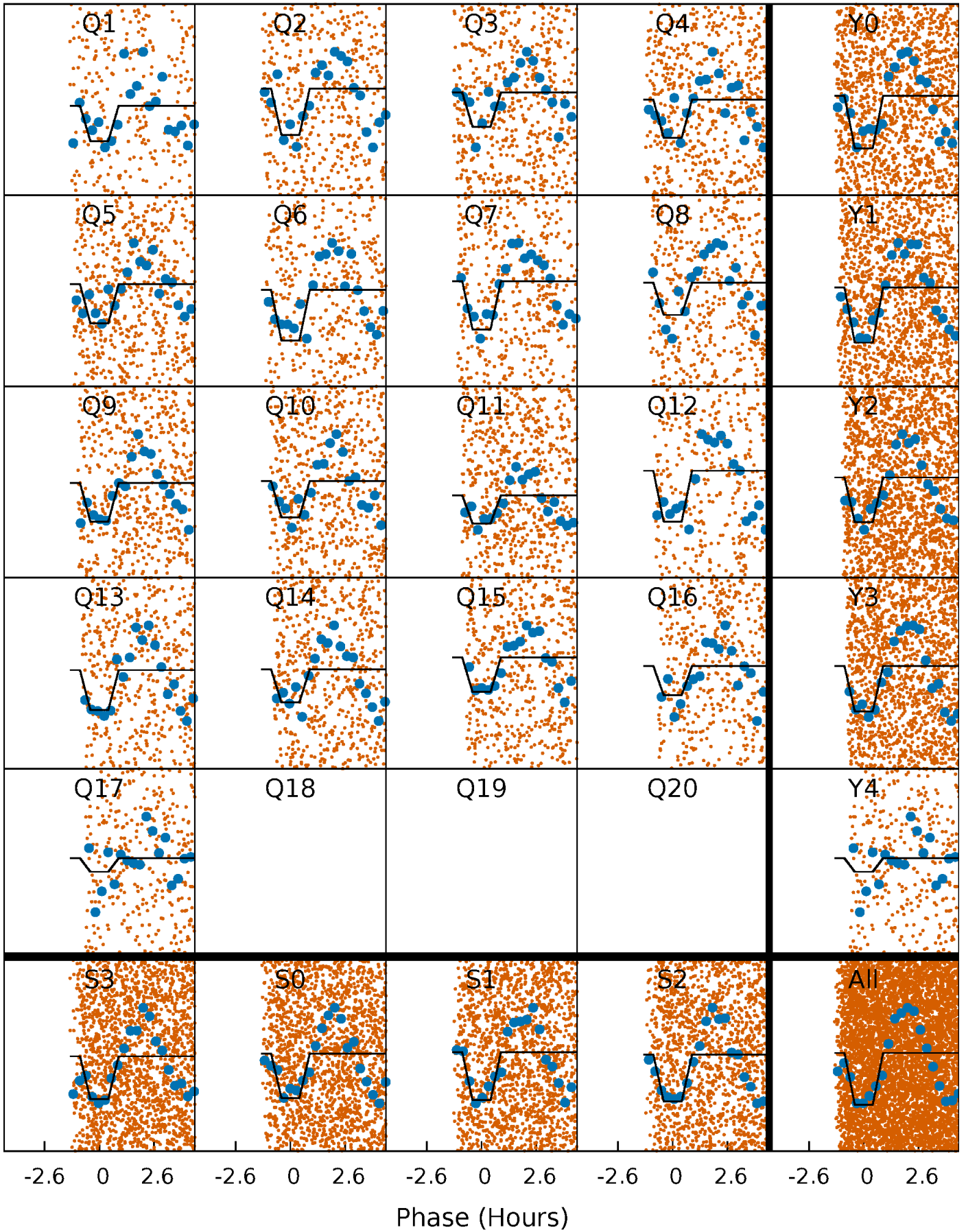
DV Quarter-Phased Transit Curves

TCE 004647763-02 P= 0.513818 Days $T_0=131.555514$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

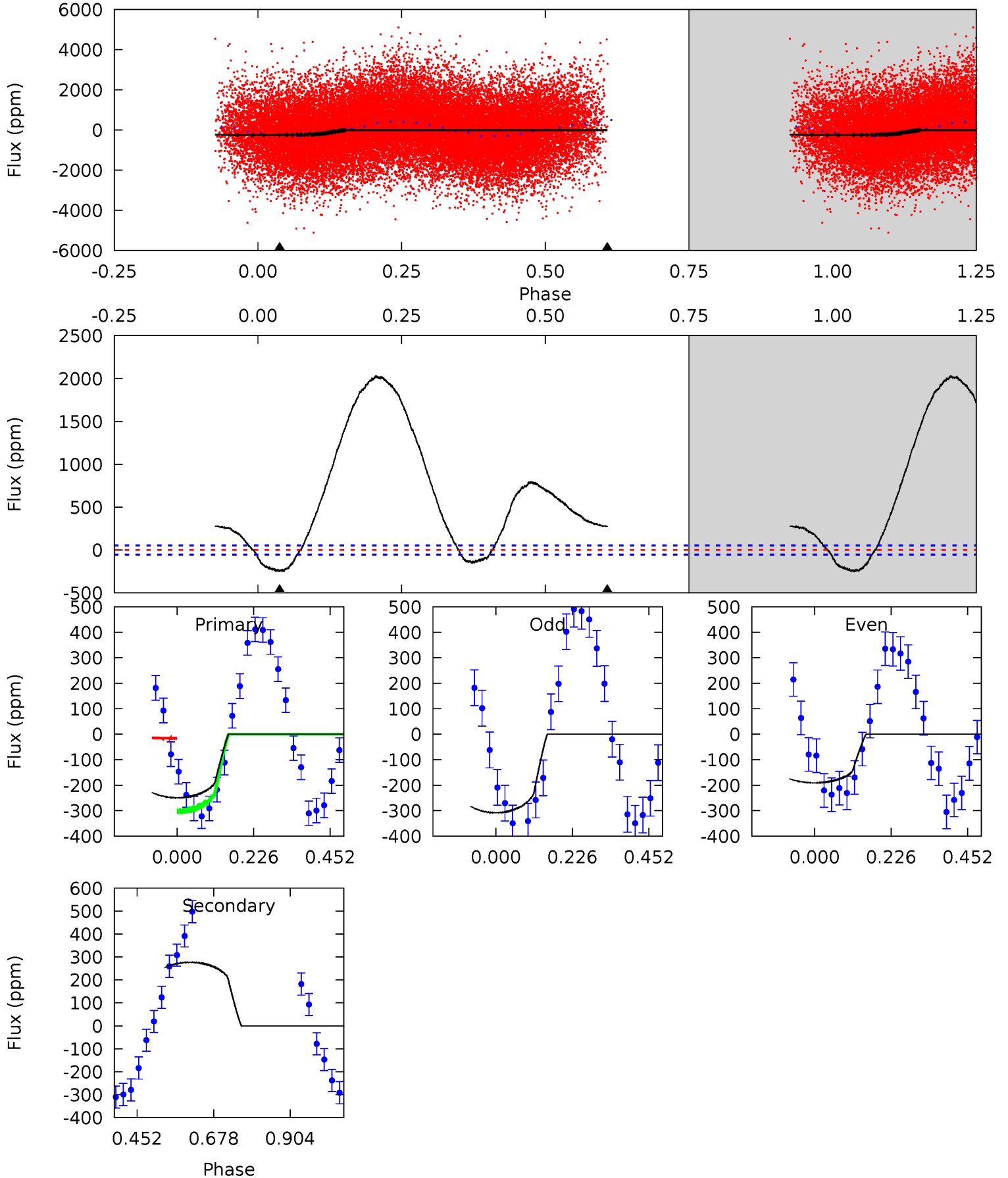
TCE 004647763-02 P= 0.513833 Days $T_0=131.574803$ (BKJD)



DV Model-Shift Uniqueness Test

004647763-02, P = 0.513818 Days, E = 131.041696 Days

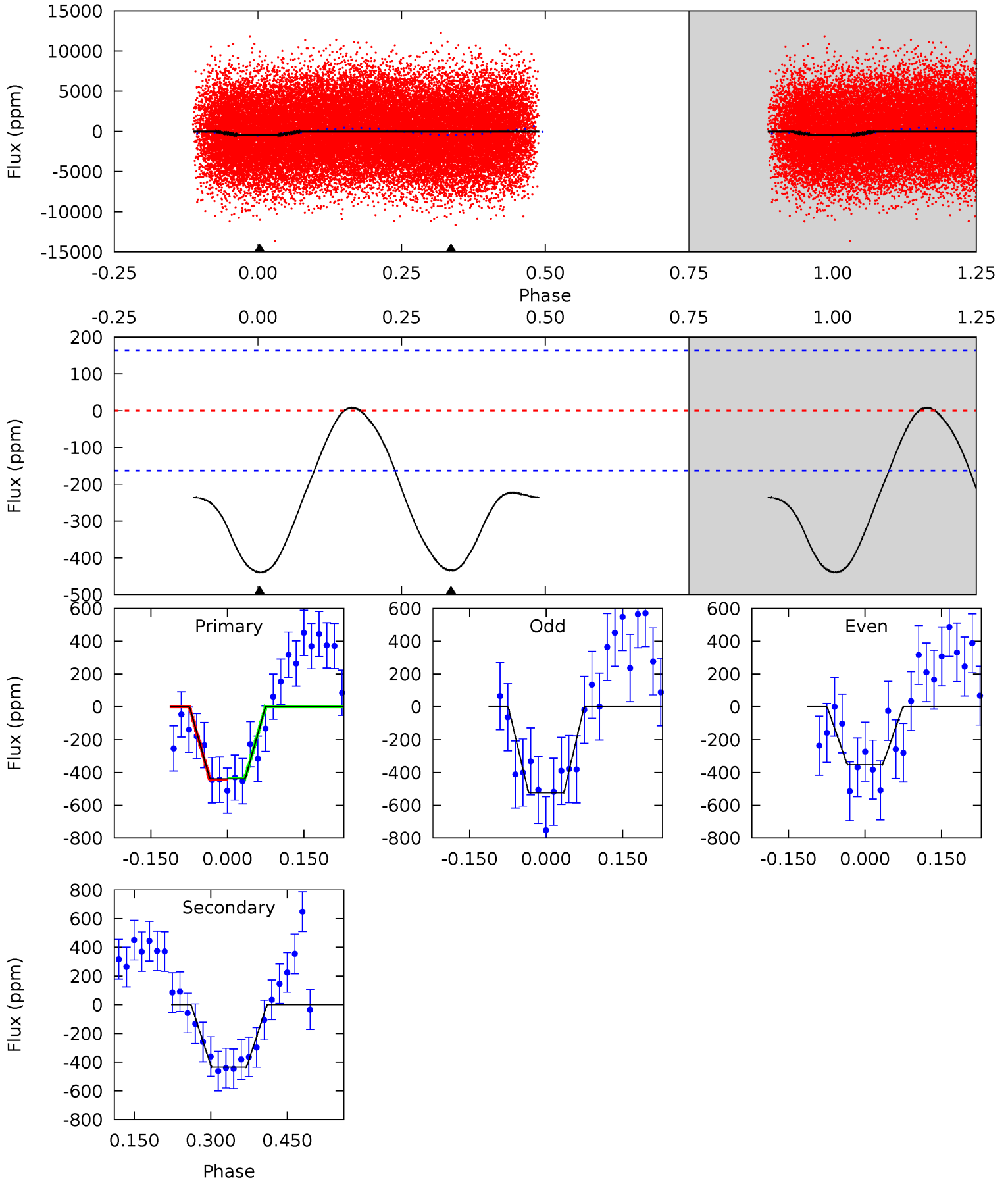
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.5	-22.7	0	0	4.39	1.21	22.8	20.5	20.5	-22.7	-22.7	4.92	1.04	0.89	8.48



Alt Model-Shift Uniqueness Test

004647763-02, P = 0.513833 Days, E = 131.060970 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.1	11.9	0	0	4.48	1.44	1.11	12.1	12.1	11.9	11.9	2.35	1.10	0.02	0.17



Stellar Parameters For KIC 004647763

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6842^{+122}_{-150}	$3.522^{+0.247}_{-0.082}$	$-0.060^{+0.150}_{-0.100}$	$3.965^{+0.128}_{-1.155}$	$1.906^{+0.169}_{-0.207}$	$0.043^{+0.064}_{-0.011}$
	+2%/-2%	+7%/-2%	+250%/-167%	+3%/-29%	+9%/-11%	+150%/-26%
Source	SPE4	SPE4	SPE4	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 004647763-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	277 ± 12	$5.78^{+4.44}_{-3.58}$	6669^{+217}_{-388}	-8243^{+1669}_{-7981}	$-1.127^{+0.772}_{-6.295}$
Alt.	-435 ± 36	$9.46^{+4.62}_{-4.27}$	6669^{+217}_{-426}	5541^{+3343}_{-8550}	$0.656^{+1.591}_{-0.368}$

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

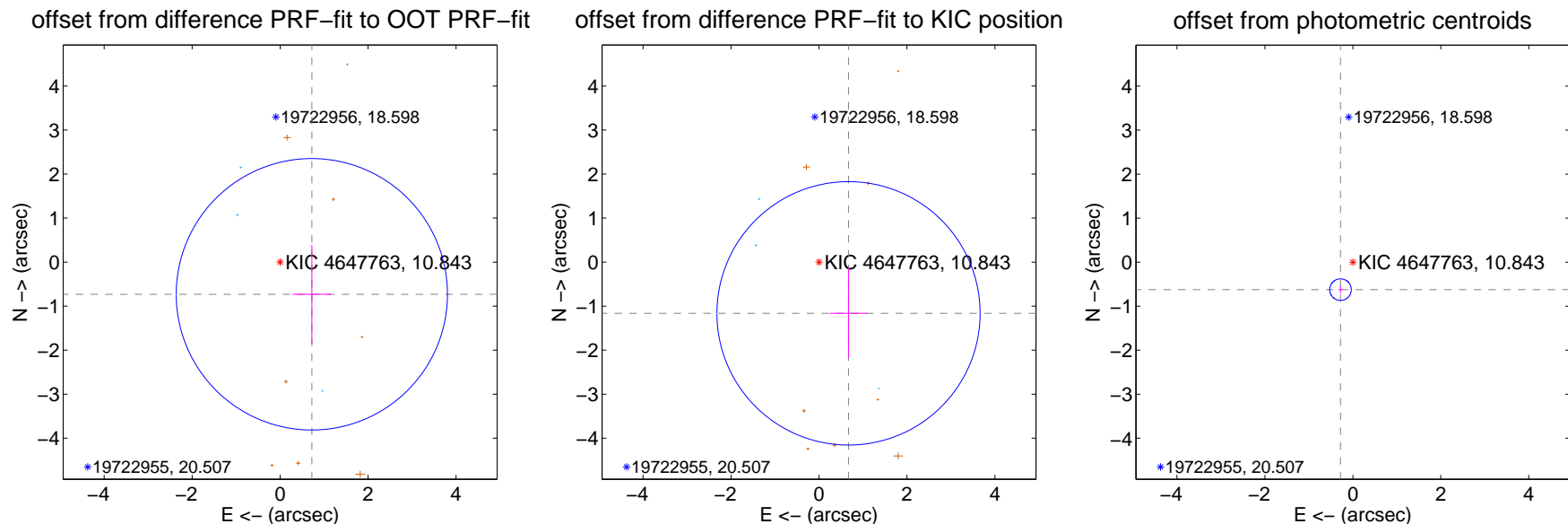
DV Centroid Data

Supplemental centroid analysis for 004647763-02. **Kepler magnitude: 10.84.** Transit SNR 12.63

There are 3 quarters with good PRF difference image offsets

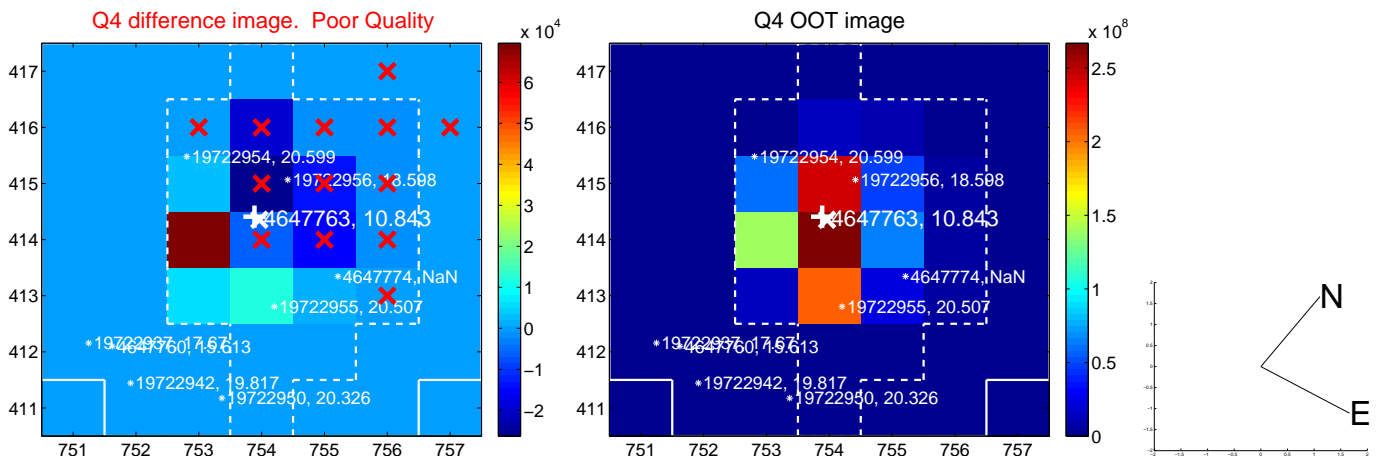
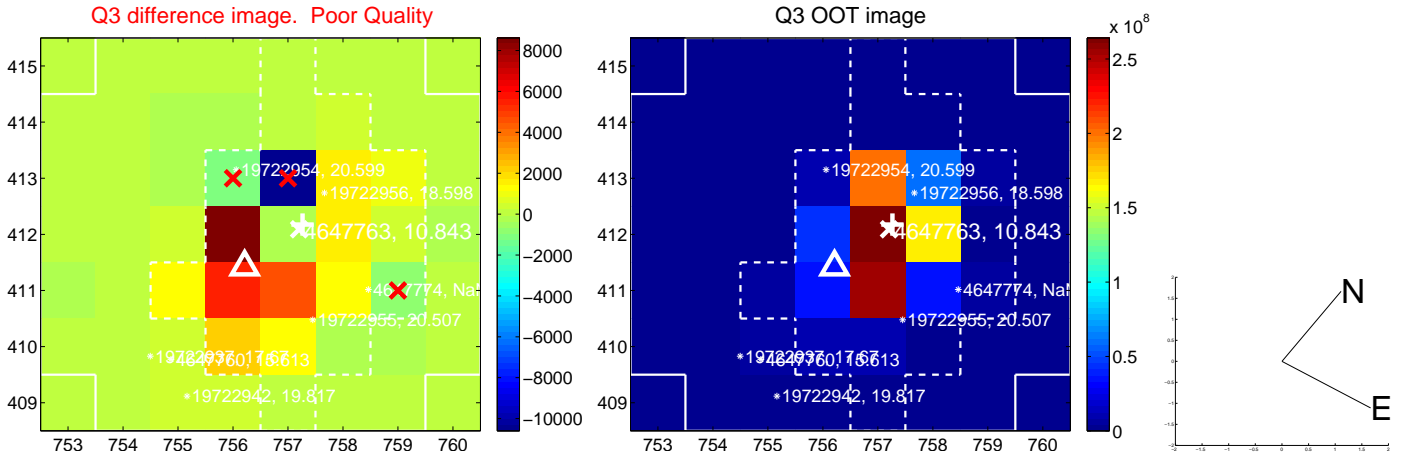
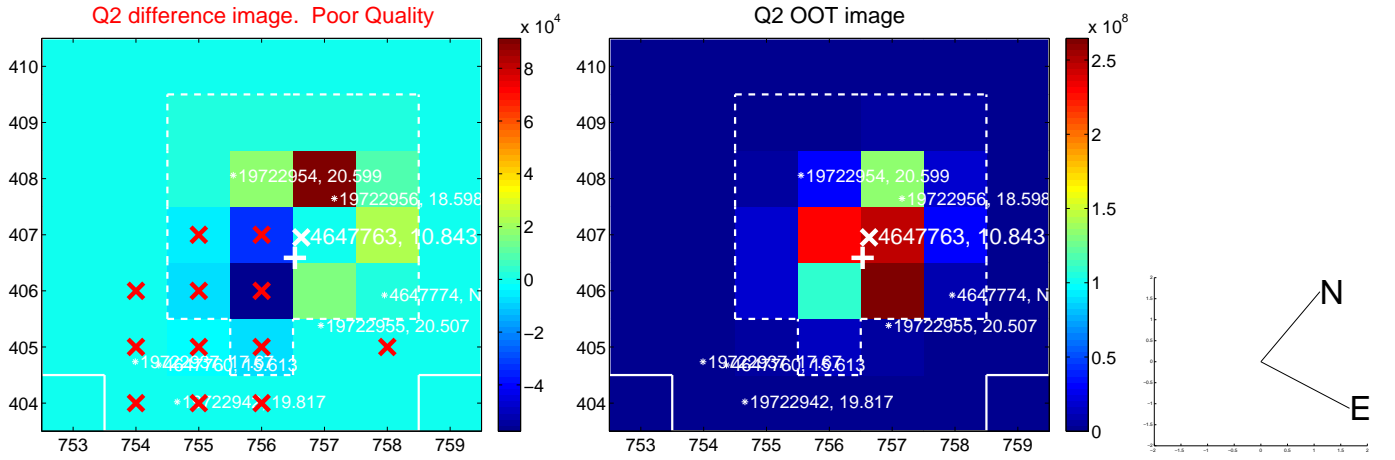
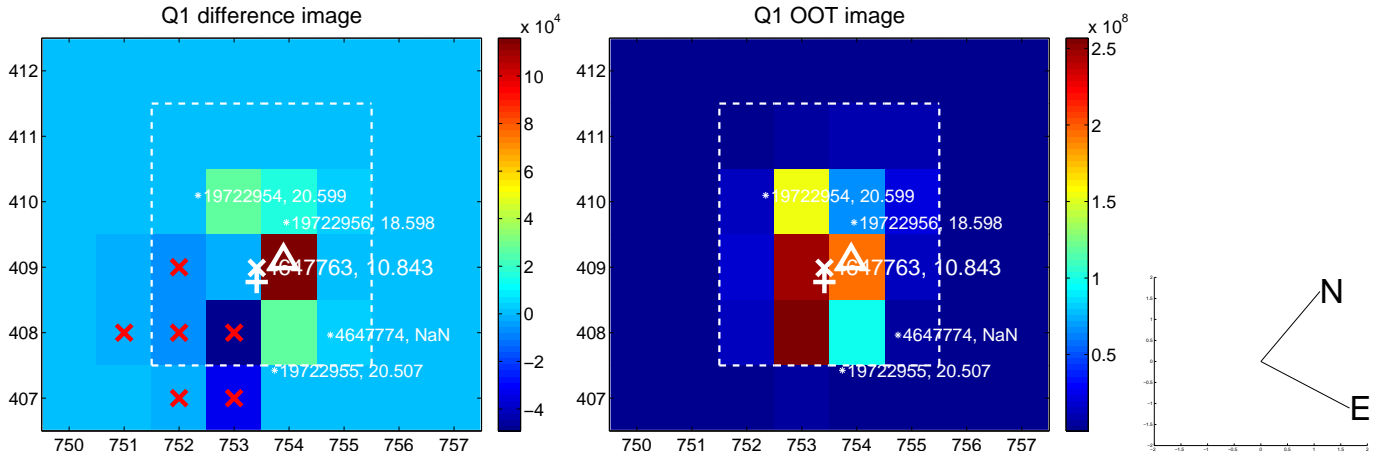
The direct PRF centroid is offset from the target star catalog position by about 0.80 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.028 ± 1.028	1.00	-0.721 ± 0.439	-0.732 ± 1.122
PRF-fit source offset from KIC position	1.344 ± 0.997	1.35	-0.671 ± 0.420	-1.165 ± 1.013
photometric centroid source offset	0.68 ± 0.08	8.37	0.28 ± 0.05	-0.62 ± 0.09

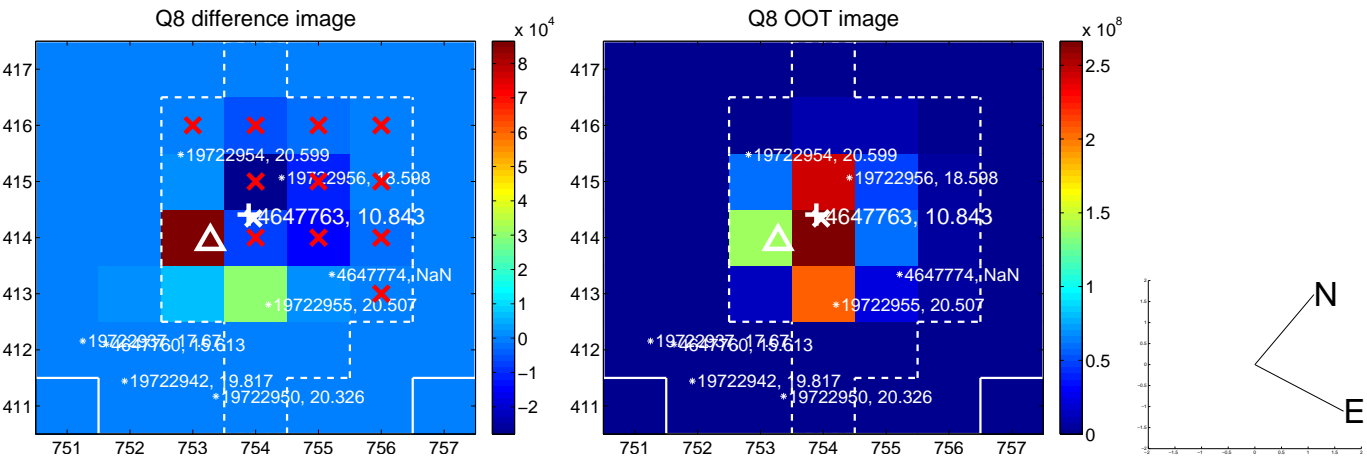
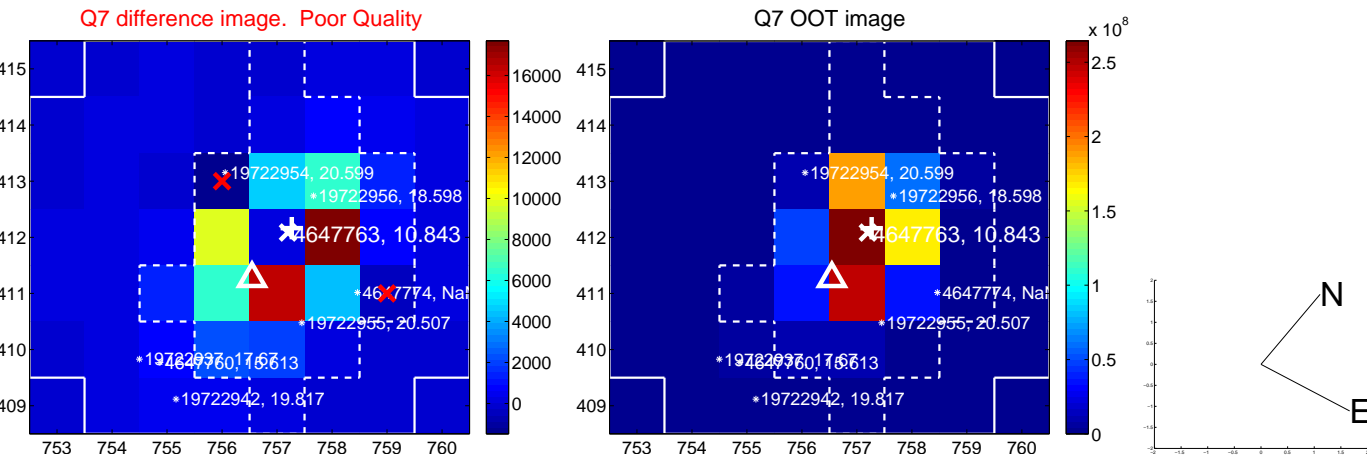
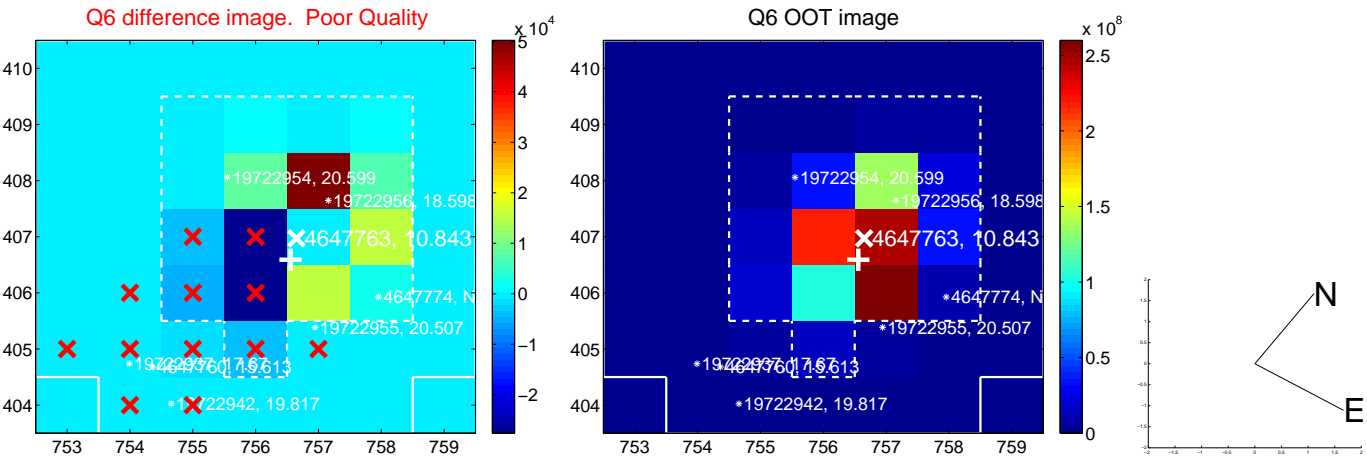
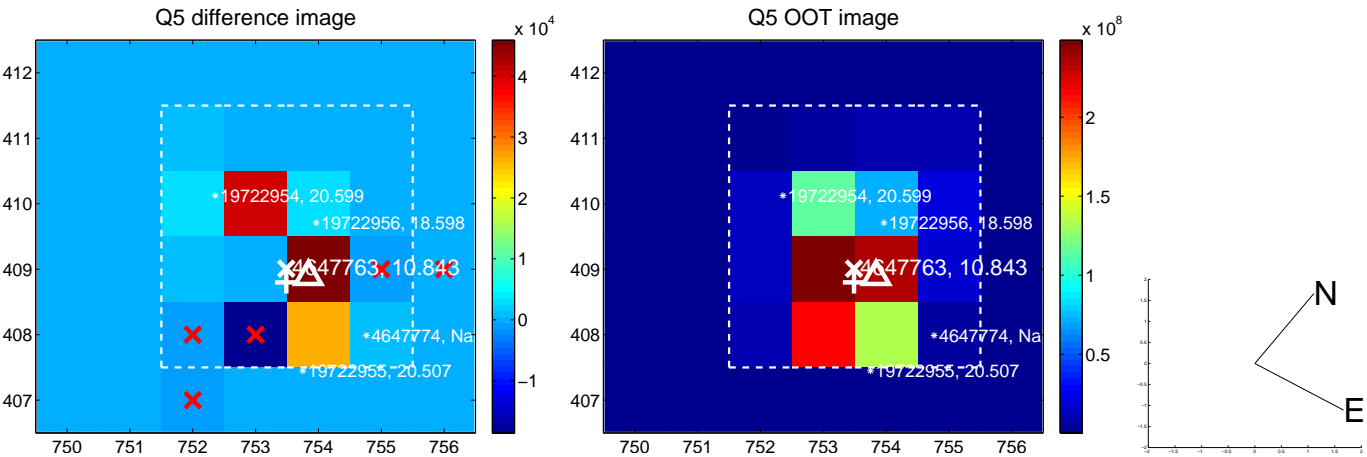


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

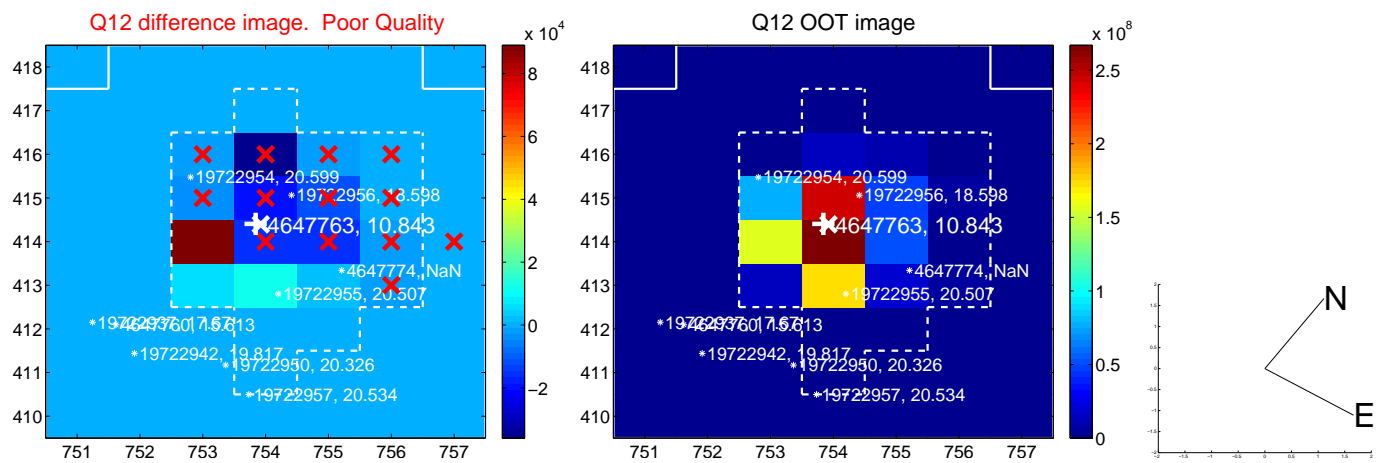
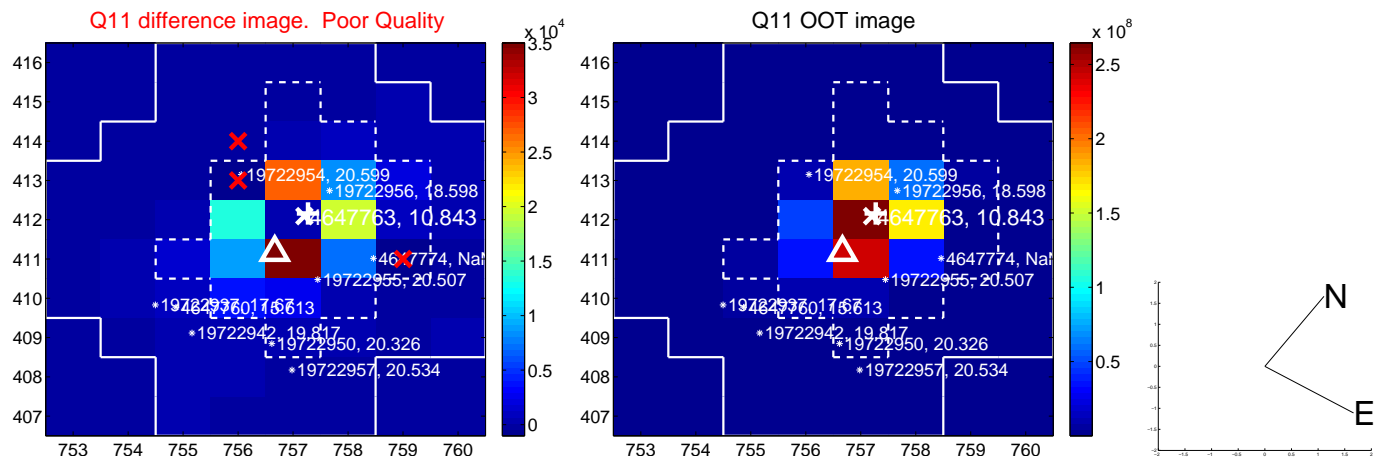
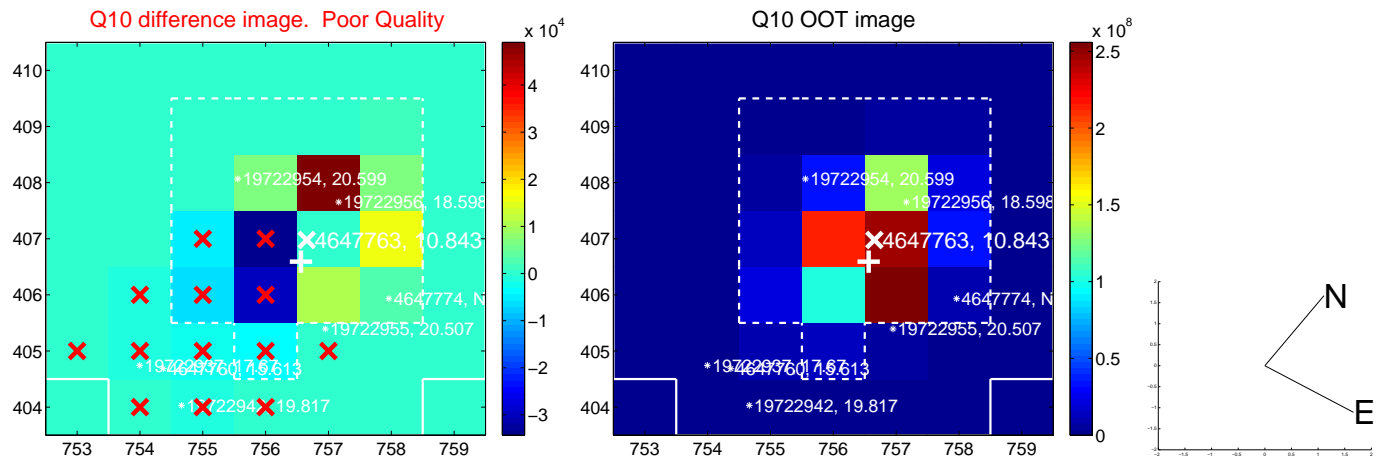
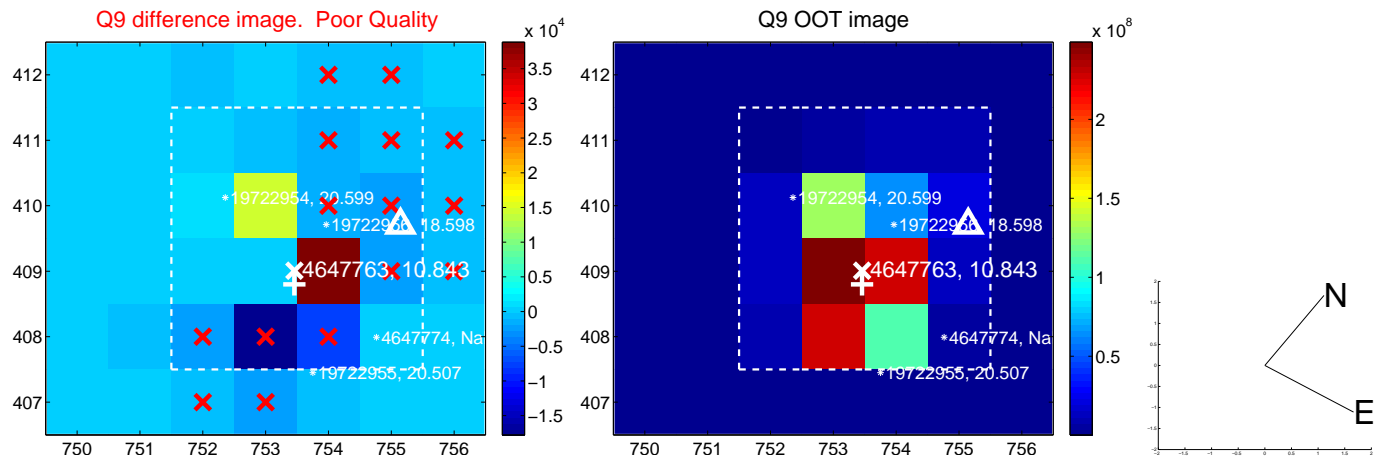
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



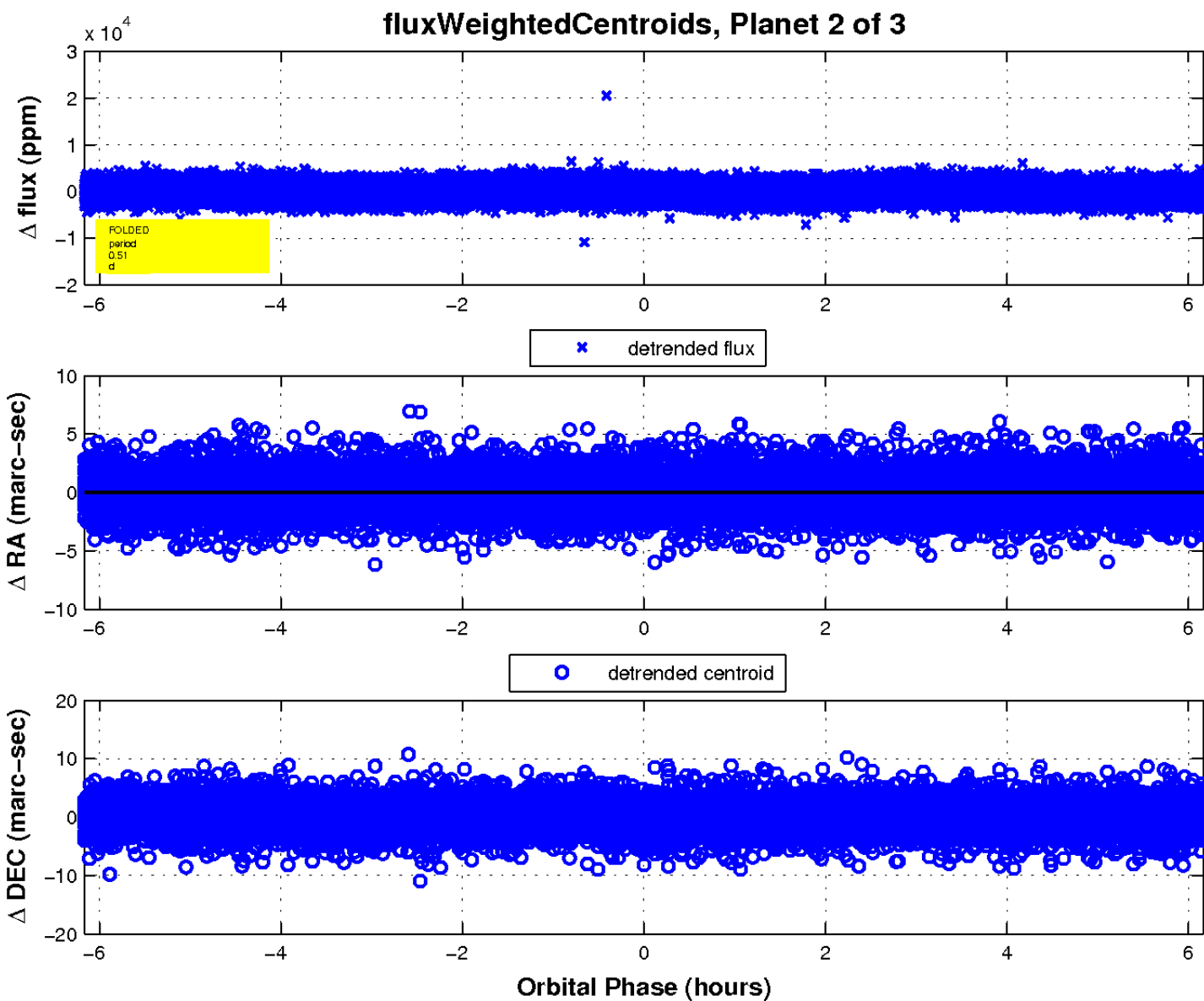
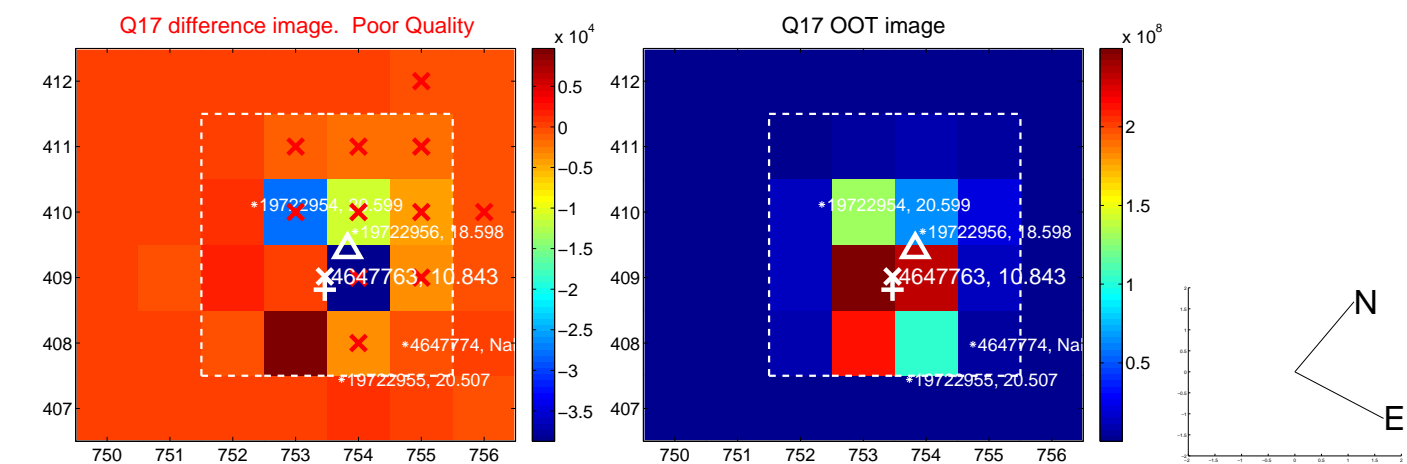
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

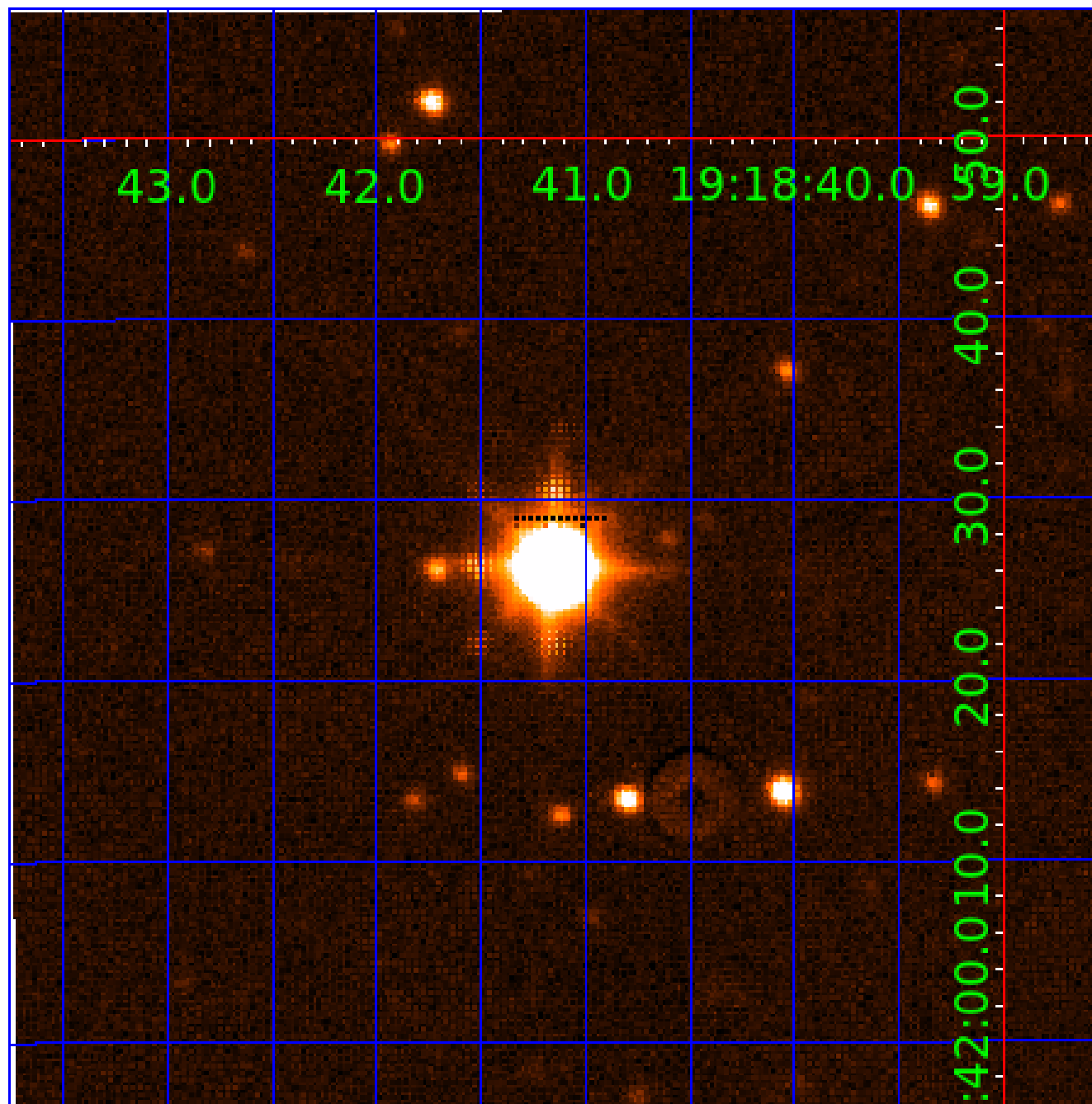


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 004647763

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
004647763-01	OBS	No	0.513844	131.912266	194.2	1.721	12.1	13.5	3.96	6842	6.44	0.00
004647763-02	OBS	No	0.513818	131.555514	178.3	3.290	12.7	12.6	3.96	6842	5.35	0.00
004647763-03	OBS	No	0.513829	131.767244	167.5	1.500	16.1	-1.0	3.96	6842	5.20	127261.68

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004647763-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_SATURATED
004647763-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
004647763-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—NO_FITS—SAME_NTL_PERIOD—CENT_SATURATED

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

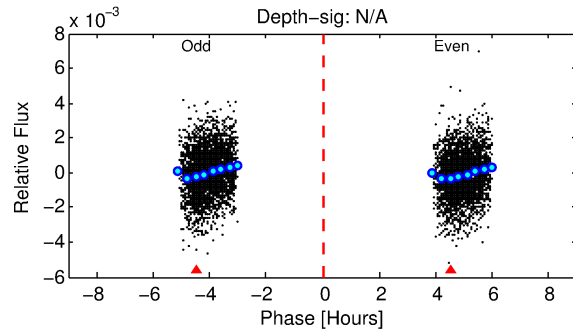
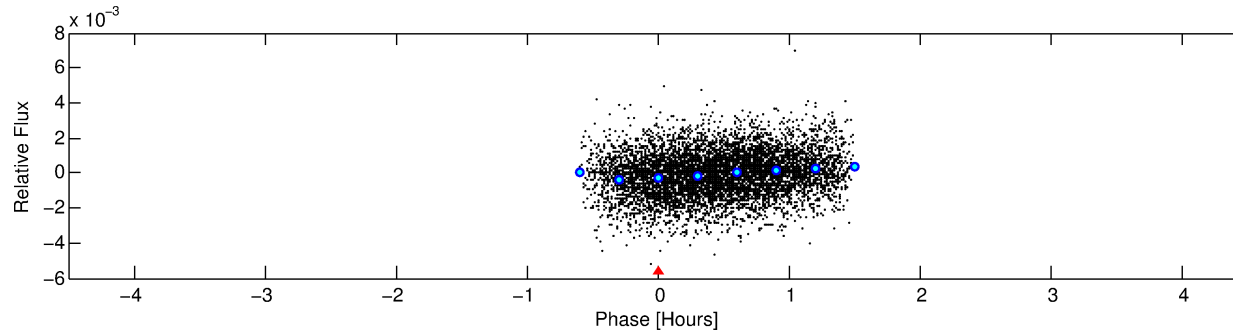
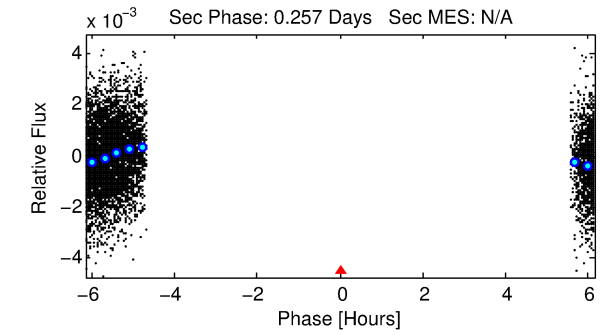
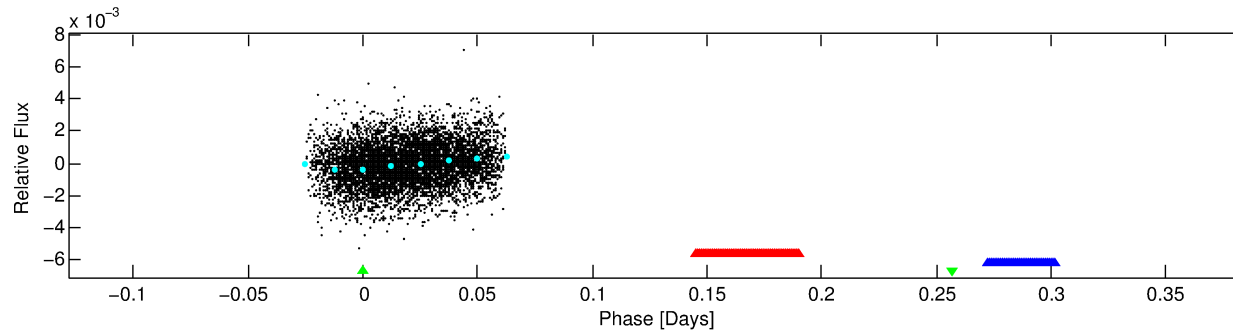
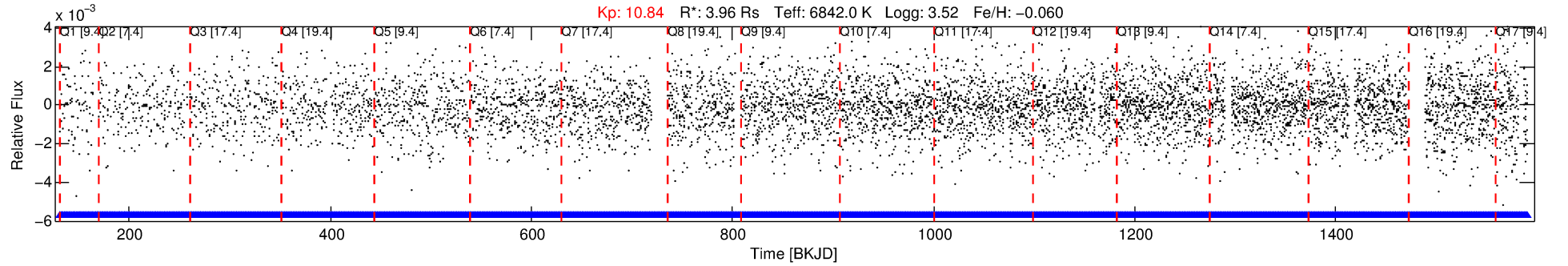
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004647763-03

No Significant Match Found

DV One-Page Summary

KIC: 4647763 Candidate: 3 of 3 Period: 0.514 d



TPS TCE Results:

Period = 0.51383 d
Epoch = 131.7672 BKJD

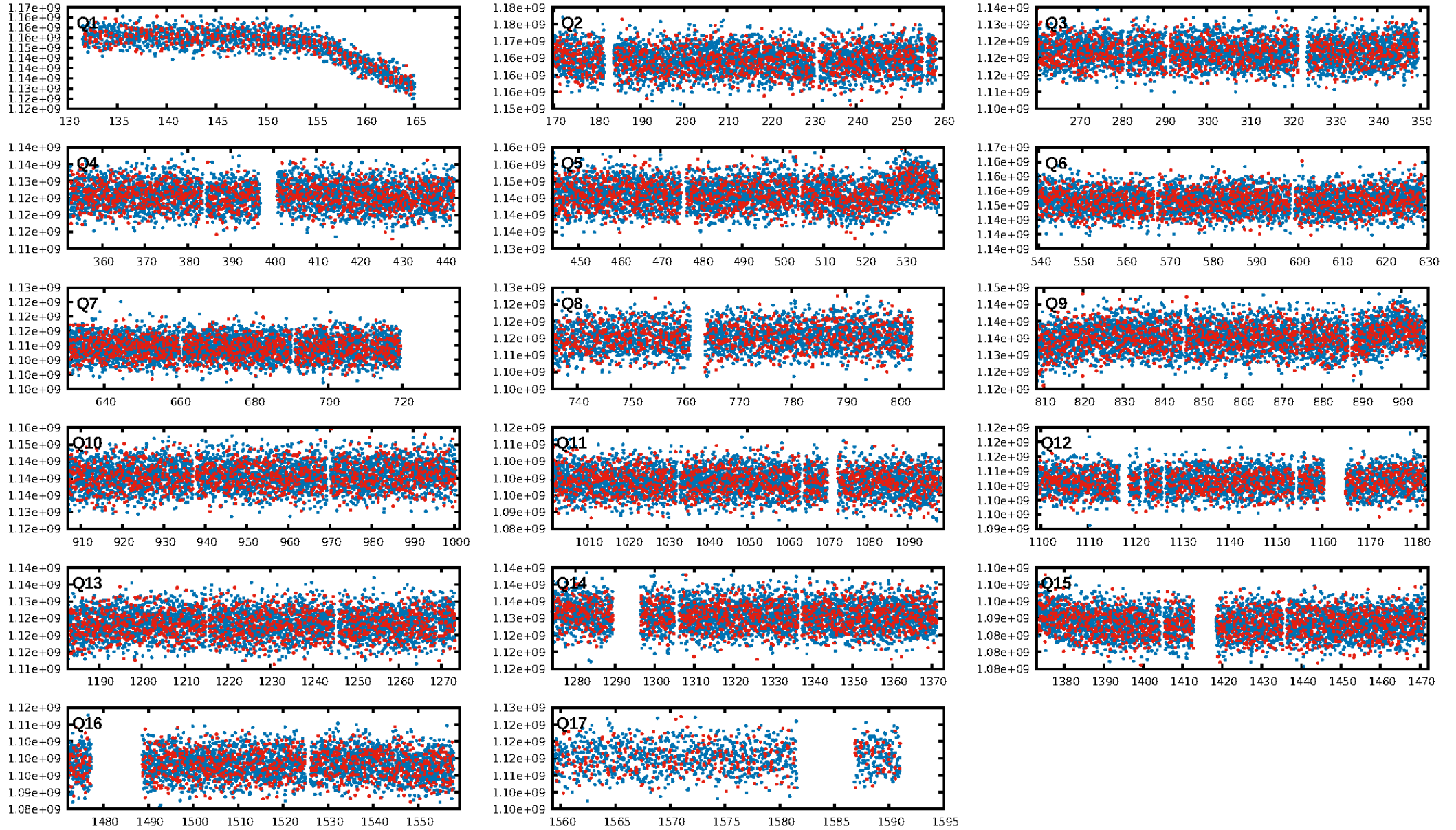
DV fit results are unavailable

DV Diagnostic Results:

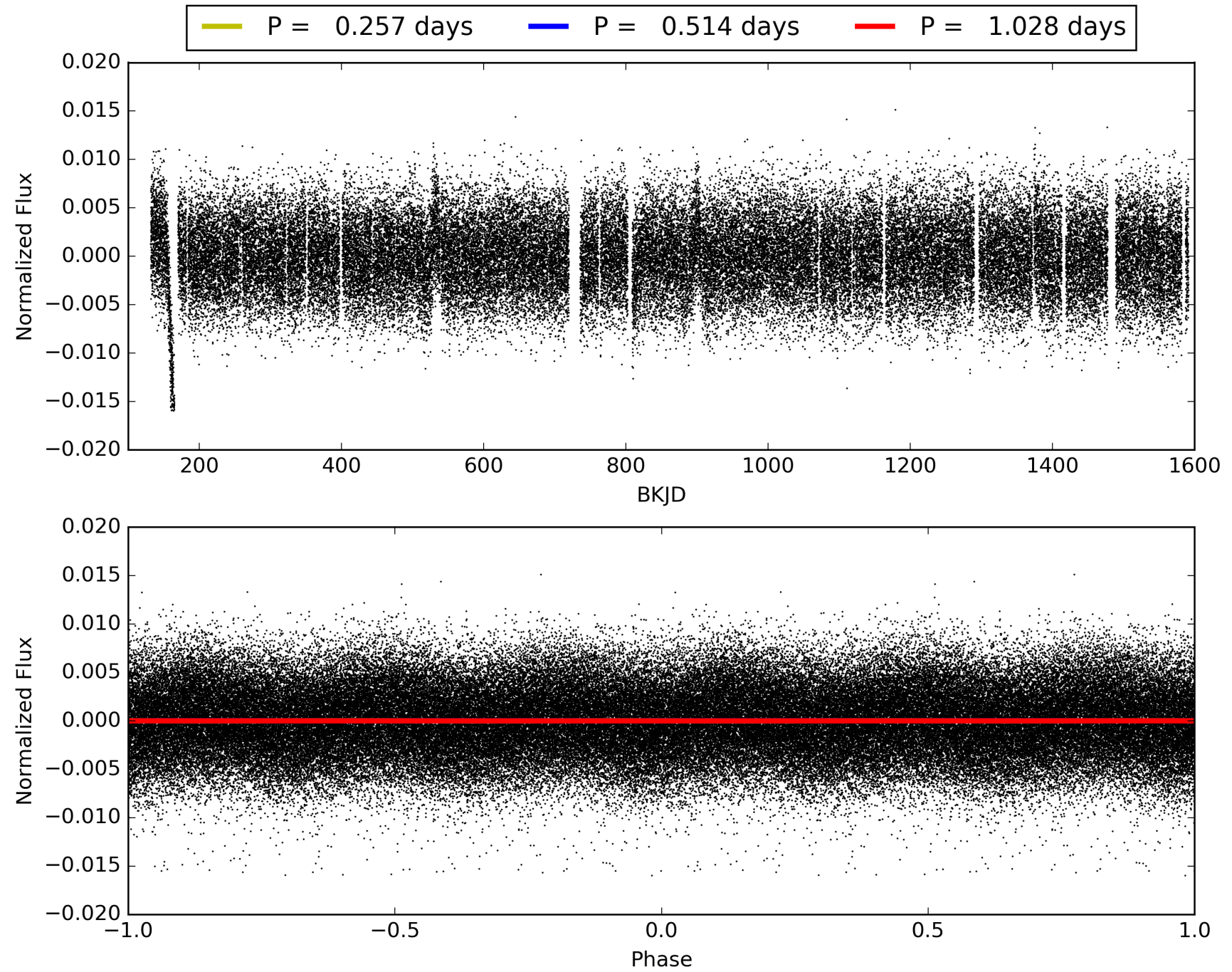
ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: N/A
GhostDiagnostic-chr: N/A

Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: N/A

TCE 004647763-03, PDC Light Curves

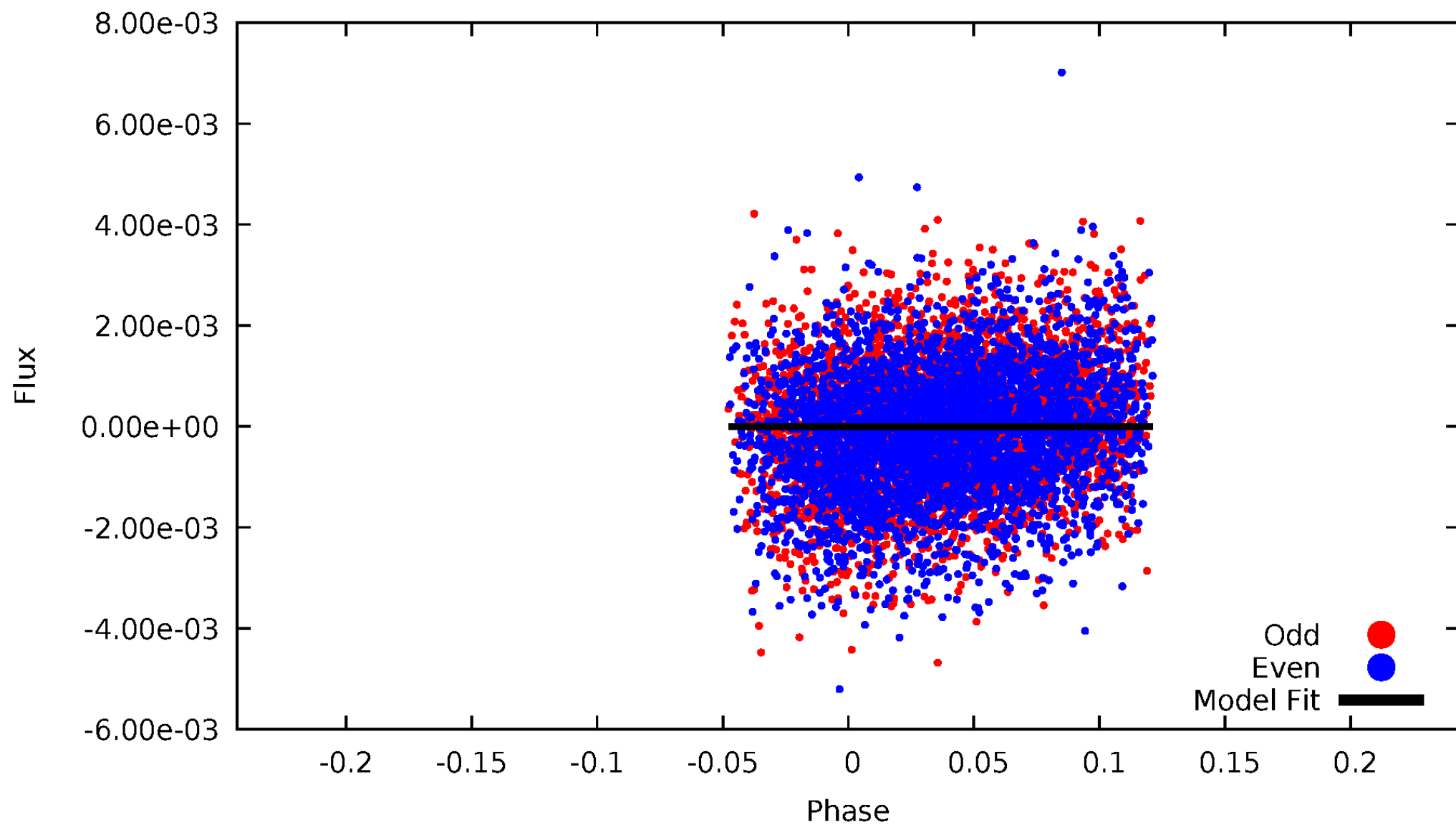


TCE 004647763-03



DV Odd/Even

TCE 004647763-03

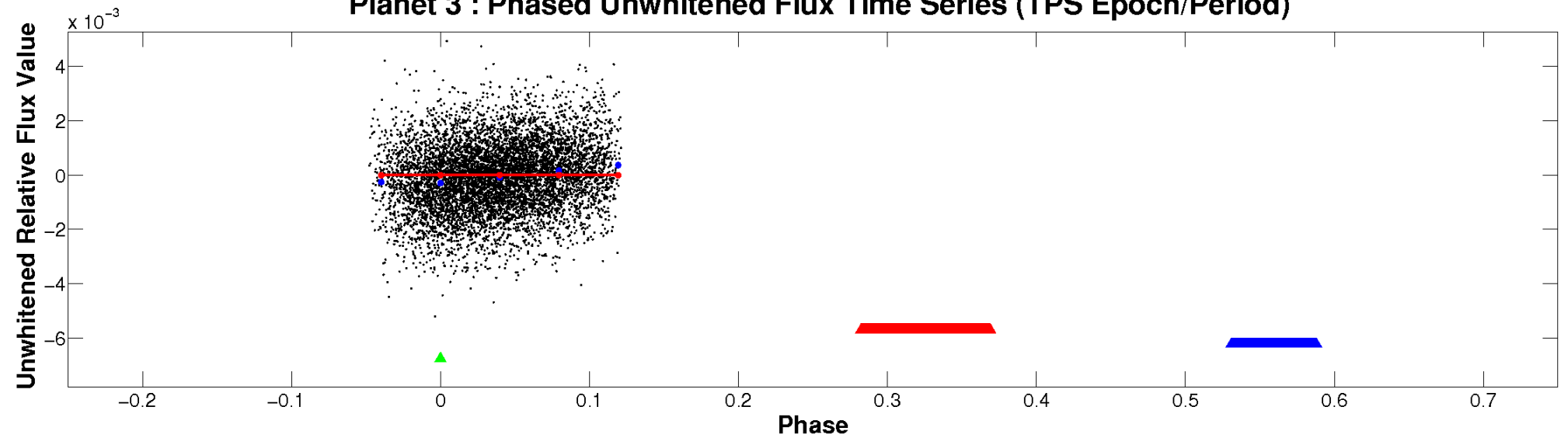


ALT Odd/Even

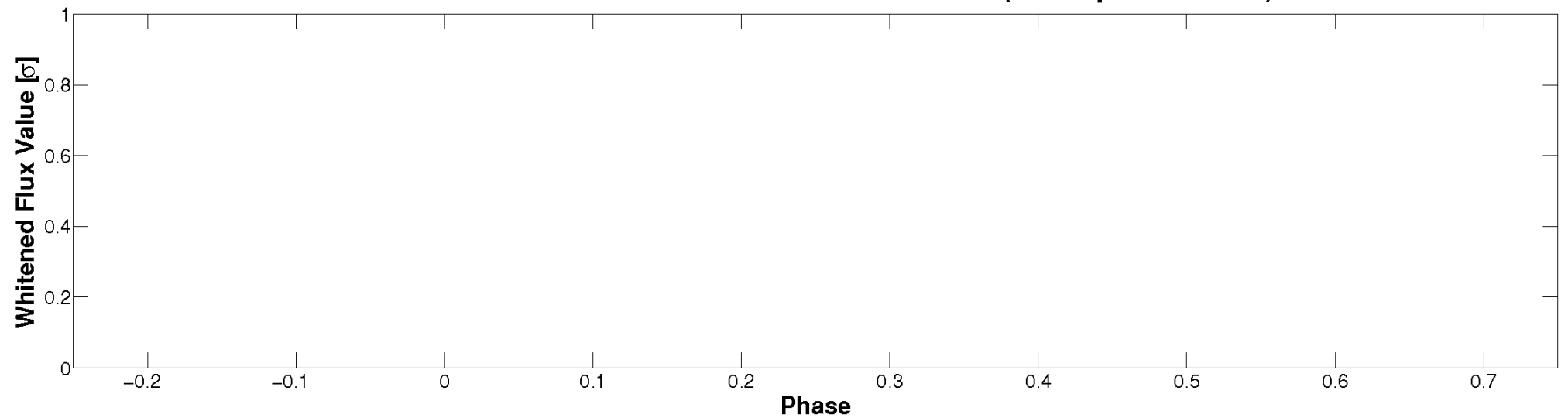
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

Planet 3 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)

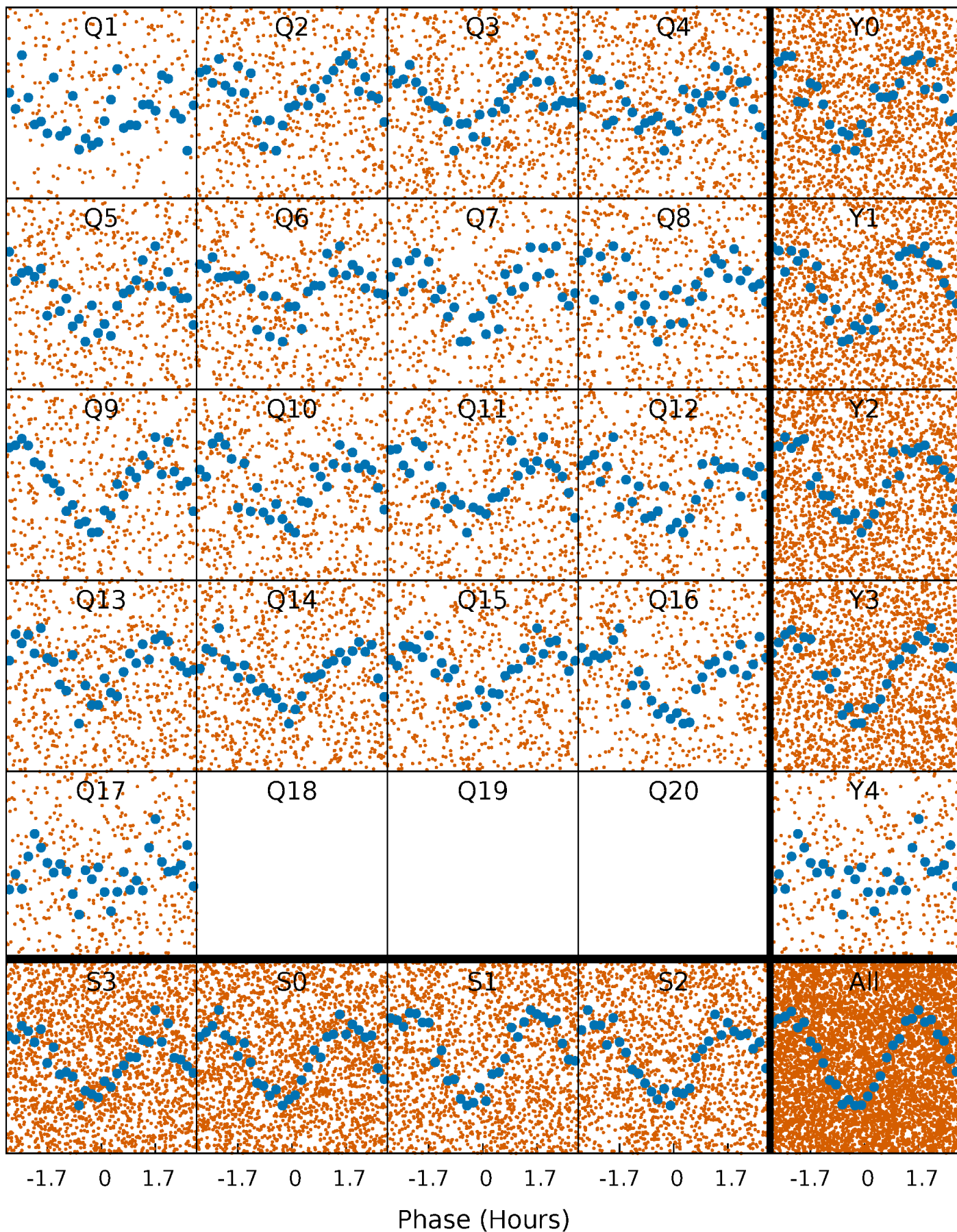


Planet 3 : Phased Whitened Flux Time Series (TPS Epoch/Period)



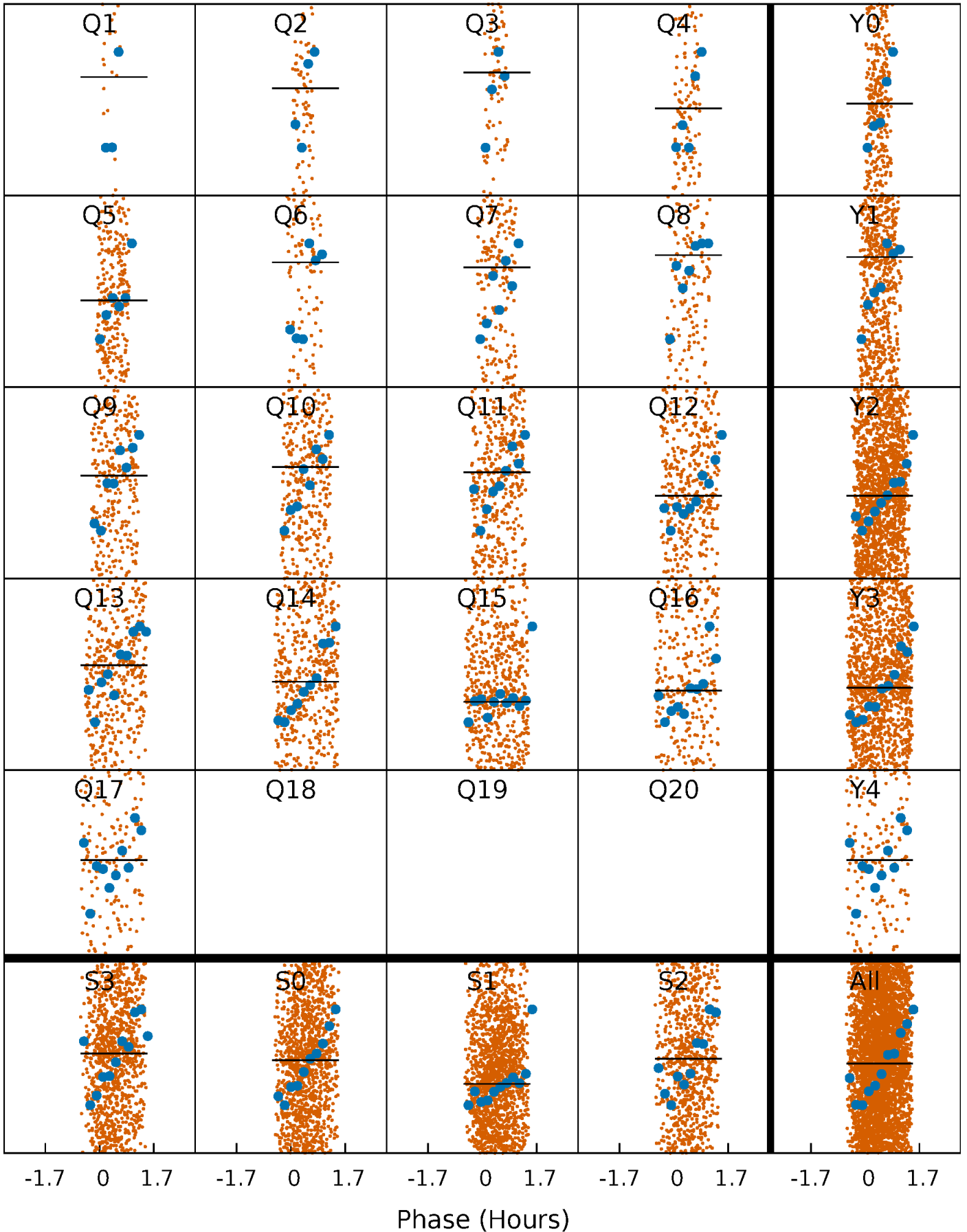
PDC Quarter-Phased Transit Curves

TCE 004647763-03 P= 0.513829 Days $T_0=131.767244$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 004647763-03 P= 0.513829 Days $T_0=131.767244$ (BKJD)

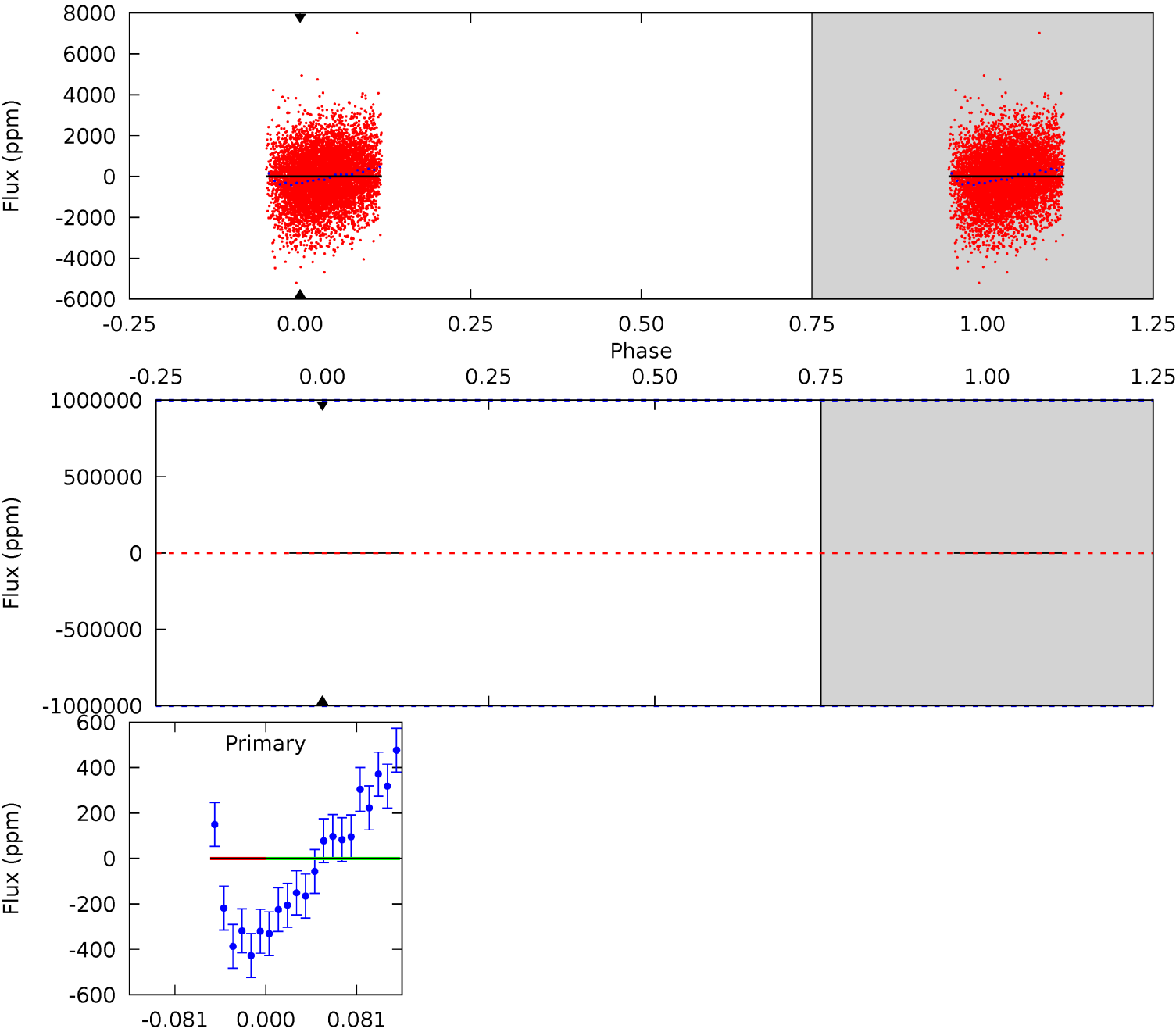


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

004647763-03, P = 0.513829 Days, E = 131.767244 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 004647763

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6842^{+122}_{-150}	$3.522^{+0.247}_{-0.082}$	$-0.060^{+0.150}_{-0.100}$	$3.965^{+0.128}_{-1.155}$	$1.906^{+0.169}_{-0.207}$	$0.043^{+0.064}_{-0.011}$
	+2%/-2%	+7%/-2%	+250%/-167%	+3%/-29%	+9%/-11%	+150%/-26%
Source	SPE4	SPE4	SPE4	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 004647763-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$29.60^{+30.35}_{-20.71}$	6660^{+234}_{-459}	-5341^{+38718}_{-29373}	$-0.009^{+27.547}_{-25.868}$
Alt.	N/A	N/A	N/A	N/A	N/A

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

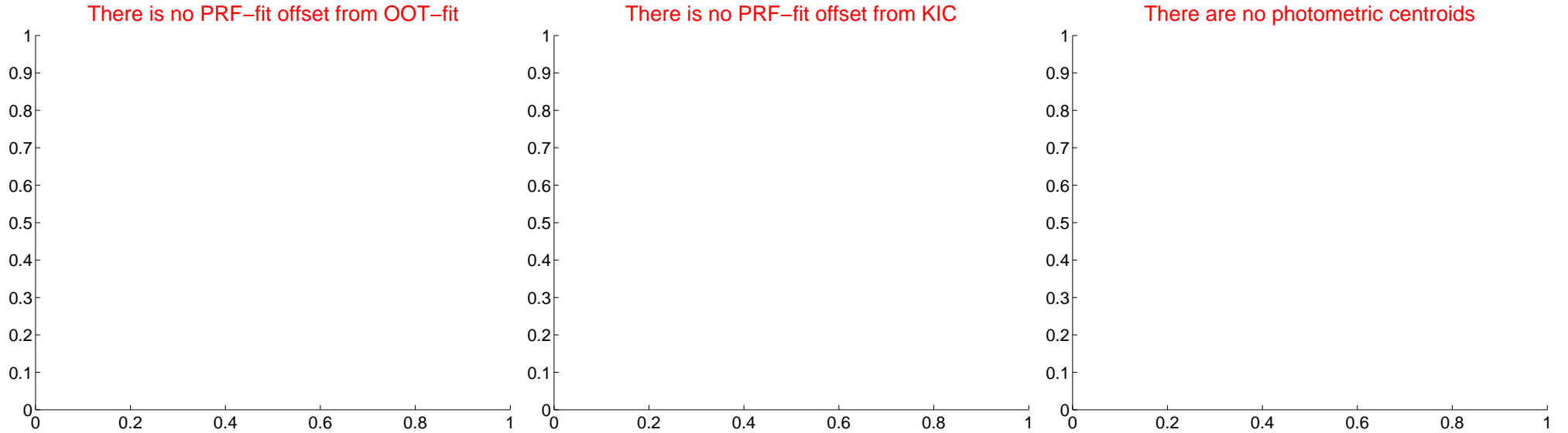
DV Centroid Data

Supplemental centroid analysis for 004647763-03. **Kepler magnitude: 10.84.** Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	—	—	—	—



Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination

